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IDENTIFIERS Environmental Quality

ABSTRACT

The Environmental Quality Instructional Resources Center acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction. This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. Each entry in the resume section of this document provides, where appropriate: (1) the title; (2) the publication date; (3) the name(s) of the author(s); (4) a set of descriptors assigned to the entry for the purpose of indexing; (5) the number of pages; (6) an abstract describing the entry; and (7) where the complete document is available. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials which meet general or highly specific requirements of their programs. Supplements to this publication will be issued periodically. (TW)

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ED284752

Prepared by

Environmental Quality Instructional Resources Center
SMEAC Information Reference Center
The Ohio State University
1200 Chambers Road, Room 310
Columbus, OH 43212

WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts Related to Environmental Quality Resource Materials With Emphasis on Water Quality

Supplement 30, 1987

SE048297

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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Robert N. Lowe

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

July, 1987

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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

Environmental Quality Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

(614) 292-6717

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The Environmental Quality Instructional Resources Center acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the Environmental Quality Instructional Resources Center is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

Environmental Quality (EQ) Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the materials is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this supplement, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EQ Instructional Resources Center at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of the 1983 compilation and supplements that follow and (2) by computer.

The compilation produced in 1983 includes the original IRIS (1979) and Supplements 1-15. It is available for $75.00.

Quarterly updates of the compilation are available by subscription on a yearly basis. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EQ Instructional Resources Center. A subscription to the quarterly supplements for 1985 is $12.00 (within the U.S.). Price to Canada and Mexico is $14.00. Prices in other Countries is $18.00. Separate quarterly supplements are $5.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched. The IRIS tapes are available for searching at The Ohio State University and will again be available for computer searching at other sites in the future.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not, contact the EQ Instructional Resources Center for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but users can access them through Dialog, BRS, CompuServe and Systems Development Corporation (Orbit). For the address of search services in your state that can search these databases, contact the:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EQ Instructional Resources Center for $0.06 per page plus $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EQ Instructional Resources Center.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
2214 North Central at Encanto
Phoenix, Arizona 85004
(602) 254-6156

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. For prices and further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106
(800) 521-0600

II. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered into ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered in ERIC

a. IRIS NUMBER: EW006023
b. PUBLICATION DATE: FEB 81
c. TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.
d. PERSONAL AUTHOR: SPENCE, GEORGE R., JR.
e. DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER RESOURCES

f. DESCRIPTIVE NOTE: 30-33P.
g. ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN, WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.

h. AVAILABILITY: POLLUTION ENGINEERING; V13 N2

a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

b. PUBLICATION DATE -- date material was published according to information on the material.

c. TITLE

d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceeded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed. The price of the material quoted is the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained.

2. Sample resume of material entered into ERIC (Resources in Education).

Items entered into ERIC (Resources in Education) will have a few additional data fields. See letter references "a" and "b" below.

IRIS ACCESSION NUMBER: EW006664
PUBLICATION DATE: 80
TITLE: RESOURCE DEVELOPMENT OF WATERSHED LANDS: A SIX WEEK SHORT COURSE.
DESCRIPTOR: ADMINISTRATION; ECOLOGICAL FACTORS; ECONOMIC FACTORS; INSTRUCTIONAL MATERIALS; *LAND USE; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WATER RESOURCES; HYDROLOGY; NATURAL RESOURCES MANAGEMENT; WATER QUALITY; *WATERSHEDS

b. DESCRIPTIVE NOTE: EDRS PRICE: MF01 PLUS POSTAGE-NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT.

ABSTRACT: THIS COURSE WAS DESIGNED TO PROVIDE THE WATER RESOURCE TECHNICIAN OR MANAGER WITH INFORMATION WHICH WILL AID IN THE IMPLEMENTATION OF IMPROVEMENTS OF PRESENT LAND USE PRACTICES AND TO ILLUSTRATE ALTERNATIVE CONCEPTS AND TECHNIQUES IN LAND AND WATER USE FOR INCREASING AND IMPROVING THE MULTIPLE PRODUCTS OF WATERSHED LANDS. (ED 197 941)

a. AVAILABILITY: ERIC DOCUMENT REPRODUCTION SERVICE, 3900 Wheeler Avenue, Alexandria, VA 22304

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EQ Instructional Resources Center.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index or Author Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to Laboratory Techniques and to Wastewater Treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence, they are not listed in this index.

III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the sources to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about four times a year as information is available.

If you are not on the mailing list write to the EQ Instructional Resources Center for subscription information.

If you need information about IRIS you can also phone (614) 292-6717 with your questions.

V. Requests for Assistance in Using IRIS

If you need help in using the IRIS manuals, phone (614) 292-6717 or write to the EQ Instructional Resources Center. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EQ Instructional Resources Center has developed or obtained some materials in these areas.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse on Adult, Career, and Vocational Education
The Ohio State University
National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabilitation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
School of Education, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings, theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary and Early Childhood Education
University of Illinois
College of Education
805 West Pennsylvania Avenue
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management
University of Oregon
Library, Room 108
1787 Agate Street
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, NW, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, governance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. ERIC Clearinghouse on Information Resources
Syracuse University
School of Education
Huntington Hall, Room 030
150 Marshall Street
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges
University of California at Los Angeles (UCLA)
Mathematical Sciences Building, Room 8118
405 Hilgard Avenue
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linguistics
Center for Applied Linguistics
1118 "22nd" Street, NW
Washington, DC 20037
Telephone: (202) 429-9551

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English and speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teacher of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics and Environmental Education
The Ohio State University
1200 Chambers Road - Room 310
Columbus, Ohio 43212
Telephone: (614) 292-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
Indiana University
Social Studies Development Center
2805 East 10th St.
Bloomington, IN 47405
Telephone: (812) 335-3838

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education (AACTE)
One Dupont Circle, NW, Suite 610
Washington, DC 20036
Telephone: (202) 293-2450

School personnel at all levels, all issues from selection through preservice and inservice preparation and training to retirement; curricula, educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service (ETS)
Rosedale Road
Princeton, New Jersey 08541
Telephone: (609) 734-5176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects of programs.

P. ERIC Clearinghouse on Urban Education
Teachers College, Columbia University
Institute for Urban and Minority Education
Box 40
525 West 120th Street
New York, New York 10027
Telephone: (212) 678-3433

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences), education of urban, Puerto Rican and Asian American

populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics, structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Office of Educational Research and Improvement (OERI)
555 New Jersey, Ave. NW
Room 522
Washington, DC 20208
Telephone: (202) 626-9240

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on a rental basis or purchased from the EQ Instructional Resources Center. Most items previously available from the NTOTC office are available from the EQ Instructional Resources Center at The Ohio State University. For further information write or call.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

C. The EQ Instructional resources Center will provide Xerox copies of materials that are not copyrighted for $1.00 per document plus $0.06 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EQ Instructional Resources Center. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

RESUME SECTION

IRIS ACCESSION NUMBER: EW#1351#
PUBLICATION DATE: 86

TITLE: PERSONAL COMPUTERS AND DATA COMMUNICATIONS.

PERSONAL AUTHOR: CHORAFAS, DIMITRIS N.

DESCRIPTOR: *COMPUTERS; *COMPUTING; *COMPUTER APPLICATIONS; *INFORMATION SYSTEMS; *INSTRUCTIONAL MATERIALS; *MICROCOMPUTERS; *PERSONAL COMPUTERS; *MANAGEMENT

DESCRIPTIVE NOTE: 341P. PRICE: $19.95

ABSTRACT: THIS TEXT PROVIDES THE INFORMATION NEEDED TO USE THE NEW TECHNOLOGY EFFECTIVELY. IT COVERS THE USE OF PERSONAL COMPUTERS, MICROCOMPUTERS, TERMINALS, AND THE FUNCTION AND USE OF DATA COMMUNICATIONS NETWORKS. CONTENTS INCLUDE: THE OFFICE OF THE FUTURE; NEW KNOW-HOW; PERSPECTIVES IN INFORMATION SYSTEMS; PERSONAL COMPUTING FOR SENIOR MANAGEMENT; PROMOTING OFFICE AUTOMATION; INFRASTRUCTURE FOR EXPERT SYSTEMS; PREPARING FOR DECISION SUPPORT; USING THE SPREADSHEET; DISTRIBUTED SYSTEMS IN MANUFACTURING AND MERCHANDIZING; CHALLENGES WITH SEMICONDUCTORS; BIOTECHNOLOGY AND THE BIOCHIP; INTERFACING THE MAN TO THE MACHINE; VOICE INPUT/OUTPUT; DISC STORAGE; BENCHMARKING THE PC; EXPERTISE IN TELECOMMUNICATIONS; THE USE OF PROTOCOLS; KEY TOPICS IN DATA COMMUNICATIONS; REALTIME, TIMESHARING, MULTIPLEXING AND LINKING THE PC TO THE MAINFRAME; GOOD NEWS AND BAD NEWS ON THE PC-TO-MAINFRAME LINK; AND USING THE NETWORK.

AVAILABILITY: COMPUTER SCIENCE PRESS, INC., 18#3 RESEARCH BOULEVARD, ROCKVILLE, MARYLAND 2#85#

IRIS ACCESSION NUMBER: EW#14161

PUBLICATION DATE: DEC 86

TITLE: DESIGN AND OPERATION OF A SLOW SAND FILTER.

PERSONAL AUTHOR: SEELAUS, TIMOTHY J.; AND OTHERS

DESCRIPTOR: *DESIGN; *DRINKING WATER; *GIARDIASIS; *FACILITIES; *OPERATIONS (WATER); *SAND FILTERS; *SLOW SAND FILTERS; *WATER TREATMENT

DESCRIPTIVE NOTE: 35-41P.

ABSTRACT: DESCRIBED IS A SLOW SAND FILTER THAT WAS DEVELOPED FOR A SMALL MOUNTAIN COMMUNITY TO ELIMINATE WATERBORNE GIARDIASIS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL: V78 N12

IRIS ACCESSION NUMBER: EW#14162
PUBLICATION DATE: DEC 86

TITLE: IMPLEMENTING DIRECT FILTRATION AND NATURAL FREEZING OF ALUM SLUDGE.

PERSONAL AUTHOR: FITCH, DAVID E.; ELLIOTT, C. MICHAEL

DESCRIPTOR: *DESIGN; *DRINKING WATER; *FACILITIES; *NPDES; *OPERATIONS (WATER); *WATER TREATMENT; *NEW YORK

DESCRIPTIVE NOTE: 52-56P.

ABSTRACT: DESCRIBED ARE IMPROVEMENTS TO A WATER TREATMENT PLANT THAT DOUBLED CAPACITY AND MET NPDES RESTRICTIONS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78 N12

IRIS ACCESSION NUMBER: EW#14163

PUBLICATION DATE: DEC 86

TITLE: NEWS OF THE FIELD.

PERSONAL AUTHOR: VISSCHER, JAN TEUN; GALVIS, GERARDO

DESCRIPTOR: *COSTS; *DESIGN; *DRINKING WATER; *DEVELOPING COUNTRIES; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *SAND FILTERS; *SLOW SAND FILTERS; *WATER TREATMENT

DESCRIPTIVE NOTE: 92-94P.

ABSTRACT: SLOW SAND FILTRATION IS RECLAIMING ITS PLACE AS A SIMPLE, RELIABLE, AND HIGHLY EFFICIENT WATER TREATMENT METHOD. THE SYSTEM HAS BEEN PARTICULARLY USEFUL IN DEVELOPING COUNTRIES. DESCRIBED ARE SOME OF THE DESIGN AND PERFORMANCE FEATURES OF SLOW SAND FILTERS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78 N12

IRIS ACCESSION NUMBER: EW#14164

PUBLICATION DATE: NOV 86

TITLE: ENVIRONMENTAL EMERGENCY RESPONSE TEAM PERSONAL PROTECTION PLAN GUIDELINES.

PERSONAL AUTHOR: POMAVILLE, DAVID; UTTERBACK, DAVID F.

DESCRIPTOR: *EMERGENCY RESPONSES; *EMERGENCY RESPONSE TEAMS; *ENVIRONMENT; *GUIDELINES; *PROTECTIVE CLOTHING; *RESPIRATORS; *SAFETY

DESCRIPTIVE NOTE: 14#-144P.

ABSTRACT: ENVIRONMENTAL EMERGENCY RESPONSE TEAMS ARE BEING ESTABLISHED IN LOCAL HEALTH DEPARTMENTS THROUGHOUT THE

COUNTRY. A SET OF GUIDELINES IS PRESENTED FOR ESTABLISHING A PERSONAL PROTECTION PLAN FOR THESE TEAMS INCLUDING CRITERIA FOR PROTECTIVE CLOTHING AND RESPIRATORS.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V49 N3

IRIS ACCESSION NUMBER: EW#14165

PUBLICATION DATE: NOV 86

TITLE: THE ROLE OF ENVIRONMENTAL HEALTH PERSONNEL IN HAZARDOUS MATERIALS EMERGENCY RESPONSE (FROM THE FIELD).

PERSONAL AUTHOR: MERRYMAN, ROBERT E.

DESCRIPTOR: *CALIFORNIA; *EMERGENCY RESPONSES; *EMERGENCY RESPONSE PLANS; *HAZARDOUS MATERIALS

DESCRIPTIVE NOTE: 145-147P.

ABSTRACT: THIS PAPER DESCRIBES THE DEVELOPMENT OF A COUNTRY HAZARDOUS MATERIALS EMERGENCY RESPONSE PLAN.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V49 N3

IRIS ACCESSION NUMBER: EW#14167

PUBLICATION DATE: DEC 86

TITLE: SPECIAL REPORT: HAZARDOUS MATERIALS AND SLUDGE INCINERATION.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *INCINERATION; *POLLUTION CONTROL; *SLUDGE; *SLUDGE DISPOSAL; *WASTES; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 32-38P.

ABSTRACT: THIS ARTICLE DISCUSSES INCINERATION OF HAZARDOUS MATERIALS AND SLUDGE. TYPES OF INCINERATORS, DESIGN FEATURES, AND LIMITATIONS ARE CONSIDERED.

AVAILABILITY: POLLUTION ENGINEERING; V18 N12

IRIS ACCESSION NUMBER: EW#14168

PUBLICATION DATE: DEC 86

TITLE: THE SEARCH FOR RELIABLE UNDERGROUND STORAGE.

PERSONAL AUTHOR: DONOVAN, BRIAN C.

DESCRIPTOR: *HAZARDOUS MATERIALS; *PETROLEUM; *POLLUTION CONTROL; *STORAGE TANKS; *TANKS; *UNDERGROUND STORAGE; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 40-43P.

ABSTRACT: THIS REPORT IS CONCERNED WITH RELIABLE STORAGE OF PETROLEUM IN UNDERGROUND TANKS. VARIOUS TYPES OF TANKS AND ADVANTAGES AND DISADVANTAGES OF EACH ARE CONSIDERED.

AVAILABILITY: POLLUTION ENGINEERING; V18 N12

IRIS ACCESSION NUMBER: EW#14169

PUBLICATION DATE: DEC 86

TITLE: FORMALIZING TREATMENT PLANT MAINTENANCE.

PERSONAL AUTHOR: PILLAI, AYYAPPAN; THOMAS, LEROY

DESCRIPTOR: *FLORIDA; *MAINTENANCE; *MAINTENANCE PROGRAMS; *MANAGEMENT; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 23-25P.

ABSTRACT: DESCRIBED ARE A MAINTENANCE MANAGEMENT SYSTEM AND APPRENTICESHIP PROGRAMS USED BY THE ST. PETERSBURY (FLORIDA) PUBLIC UTILITIES DEPARTMENT.

AVAILABILITY: PUBLIC WORKS; V117 N12

IRIS ACCESSION NUMBER: EW#14170

PUBLICATION DATE: DEC 86

TITLE: CAN A SMALL TOWN TREATMENT PLANT ESTABLISH NEW STANDARDS?

PERSONAL AUTHOR: CLARK, ARLEN B.; CLARK, SIDNEY E.

DESCRIPTOR: *ALASKA; *COSTS; *DESIGN; *ENVIRONMENTAL IMPACT; *FACILITIES; *TEMPERATURE EFFECTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 29-32P.

ABSTRACT: DESCRIBED IS THE DESIGN OF A SMALL TOWN WASTEWATER TREATMENT PLANT IN JUNEAU, ALASKA. THE PLANT WAS DESIGNED TO MEET SEVERE ENVIRONMENTAL CONSTRAINTS.

AVAILABILITY: PUBLIC WORKS; V117 N12

IRIS ACCESSION NUMBER: EW#14171

PUBLICATION DATE: DEC 86

TITLE: HIGH TECH APPROACH TO URBAN STORMWATER MANAGEMENT.

PERSONAL AUTHOR: PIMENTEL, DAVID V.; OSWALD, GEORGE E.

DESCRIPTOR: *MANAGEMENT; *MONITORING; *STORMWATER; *SURFACE

RUNOFF; *WASTEWATER COLLECTION; *URBAN AREAS

DESCRIPTIVE NOTE: 32-34P.

ABSTRACT: DESCRIBED ARE SOME OF THE SOPHISTICATED TECHNIQUES DEVELOPED BY AUSTIN (TEXAS) TO MONITOR STORMWATER RUNOFF AND WARN OF FLOODS.

AVAILABILITY: PUBLIC WORKS; V117 N12

IRIS ACCESSION NUMBER: EW#14172

PUBLICATION DATE: DEC 86

TITLE: IMPROVED LAGOON PERFORMANCE THROUGH RETENTION-TIME CONTROL.

PERSONAL AUTHOR: RICH, LINVIL G.

DESCRIPTOR: *LAGOONS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 38-39P.

ABSTRACT: LAGOON PERFORMANCE CAN BE IMPROVED BY RENTENTION-TIME CONTROL. SUSPENDED SOLIDS REDUCTION IS IMPROVED BY MATCHING RETENTION TIME WITH TEMPERATURE.

AVAILABILITY: PUBLIC WORKS; V117 N12

IRIS ACCESSION NUMBER: EW#14217

PUBLICATION DATE: DEC 86

TITLE: AVOIDING FINE BUBBLE BREAKDOWN.

PERSONAL AUTHOR: HOUCK, DANIEL H.

DESCRIPTOR: *AERATORS; *BUBBLE AERATORS; *EQUIPMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 18-21P.

ABSTRACT: THIS ARTICLE SUMMARIZES PROVEN TECHNIQUES FOR SUCCESSFUL OPERATION AND MAINTENANCE OF FINE BUBBLE AERATION SYSTEMS.

AVAILABILITY: OPERATIONS FORUM; V3 N12

IRIS ACCESSION NUMBER: EW#14218

PUBLICATION DATE: DEC 86

TITLE: LOW-COST LAB WORK.

PERSONAL AUTHOR: BOYED, J. W.; FARRILL, T. W.

DESCRIPTOR: *ANALYTICAL PROCEDURES; *COLORIMETRIC TESTING; *LABORATORY PROCEDURES; *METALS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *REPORTING

DESCRIPTIVE NOTE: 22-24P.

ABSTRACT: DESCRIBED ARE SOME LOW-COST PROCEDURES FOR DOING COLORIMETRIC LABORATORY TESTING FOR METAL IONS AT WASTEWATER TREATMENT PLANTS.

AVAILABILITY: OPERATIONS FORUM; V3 N12

IRIS ACCESSION NUMBER: EW#14219

PUBLICATION DATE: DEC 86

TITLE: SLUDGE WASTING. FUNDAMENTALS PROCESS CONTROL PART VII.

PERSONAL AUTHOR: HOBSON, TIM

DESCRIPTOR: *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *SLUDGE; *SLUDGE WASTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 25-29P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR DETERMINING AND CONTROLLING SLUDGE WASTING RATES.

AVAILABILITY: OPERATIONS FORUM; V3 N12

IRIS ACCESSION NUMBER: EW#1422#

PUBLICATION DATE: DEC 86

TITLE: RETHINKING THE WORKSHOP.

PERSONAL AUTHOR: LADD, CAROLYN

DESCRIPTOR: *INSTRUCTION; *RECOMMENDATIONS; *TRAINING; *TRAINING PROCEDURES; *WORKSHOPS

DESCRIPTIVE NOTE: 42-44P.

ABSTRACT: DESCRIBED ARE VARIOUS TYPES OF TRAINING TECHNIQUES AND TRAINING APPROACHES THAT MAY CHANGE TRAINING PROCEDURES, PRIMARILY USE OF TRADITIONAL WORKSHOPS.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V4# N12

IRIS ACCESSION NUMBER: EW#14221

PUBLICATION DATE: DEC 86

TITLE: BEHAVIOR MODELING FOR RESULTS.

PERSONAL AUTHOR: HULTMAN, KENNETH E.

DESCRIPTOR: *BEHAVIOR MODELING; *INSTRUCTION; *SUPERVISORS; *TRAINING

DESCRIPTIVE NOTE: 6#-63P.

ABSTRACT: DESCRIBED ARE EFFECTIVE CASES OF BEHAVIOR MODELING IN SUPERVISORY TRAINING AND HOW TO CONDUCT EFFECTIVE LEARNING SESSIONS AND SEQUENCES.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V4# N12

IRIS ACCESSION NUMBER: EW#14222

PUBLICATION DATE: JUL 86

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS, SUPPLEMENT 26, 1986.

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; HAZARDOUS MATERIALS; INDEXES; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; *PESTICIDES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; *WASTEWATER; WATER; WATER POLLUTION; *WATER QUALITY; *WATER RESOURCES; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 97P. PRICE: SUBSCRIPTION: $12.##, $5.## EACH.

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO PRESTICIDES, HAZARDOUS WASTES, AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENTAL, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-25.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14224

PUBLICATION DATE: DEC 86

TITLE: HOW STRINGENT SHOULD MARINE WAIVERS FROM SECONDARY TREATMENT BE? WPCF ISSUE PAPER.

DESCRIPTOR: *DISCHARGE WAIVERS; *EFFLUENT; *ISSUES; *MARINE DISCHARGE WAIVERS; *OPERATIONS (WASTEWATER); *REGULATIONS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 11#1-11#4P.

ABSTRACT: THIS PAPER CONSIDERS ISSUES RELATED TO MARINE WAIVERS FROM SECONDARY TREATMENT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N12

IRIS ACCESSION NUMBER: EW#14225

PUBLICATION DATE: DEC 86

TITLE: PRETREATMENT: ARE WE HEADED IN THE RIGHT DIRECTION? WPCF COMMITTEE VIEWPOINT.

DESCRIPTOR: *ISSUES; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *PRETREATMENT; *REGULATIONS; *WASTEWATER TREATMENT; *WPCF

DESCRIPTIVE NOTE: 11#5-11#6P.

ABSTRACT: THIS ARTICLE IS PUBLISHED TO PRESENT A WPCF COMMITTEE VIEWPOINT ON PRETREATMENT OF INDUSTRIAL WASTES DISCHARGED TO MUNICIPAL TREATMENT SYSTEMS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N12

IRIS ACCESSION NUMBER: EW#14226

PUBLICATION DATE: DEC 86

TITLE: RE-EVALUATION OF LAUNDERS IN RECTANGULAR SEDIMENTATION BASINS.

PERSONAL AUTHOR: KAWAMURA, SUSUMU; LANG, JOHN

DESCRIPTOR: *BASINS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TURBIDITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1124-1128P.

ABSTRACT: THE EFFECTIVENESS OF LONG LAUNDERS IN RECTANGULAR SEDIMENTATION BASINS IS QUESTIONABLE, AND THEIR USE SHOULD BE CLOSELY SCRUTINIZED.

AVAILABILITY: JOURNAL, WATER POLLUTION CONTROL FEDERATION; V58 N12

IRIS ACCESSION NUMBER: EW#14227

PUBLICATION DATE: DEC 86

TITLE: HYDRAULIC STUDIES AND CLEANING EVALUATIONS OF ULTRAVIOLET DISINFECTION UNITS.

PERSONAL AUTHOR: KREFT, PETER; AND OTHERS

DESCRIPTOR: *CLEANING; *DESIGN; *DISINFECTION; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *ULTRAVIOLET; *DISINFECTION UNITS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1129-1137P.

ABSTRACT: MOST QUARTZ-TUBE UNITS ARE EQUIPPED WITH ACCESSORY CLEANING DEVICES; HOWEVER, BOTH THESE AND POLYMER TUBE UNITS SHOULD BE DESIGNED WITH RECIRCULATING CHEMICAL CLEANING SYSTEMS.

AVAILABILITY: JOURNAL, WATER POLLUTION CONTROL FEDERATION; V58 N12

IRIS ACCESSION NUMBER: EW#14228

PUBLICATION DATE: DEC 86

TITLE: PLANT RECYCLES PROCESS AND HYDRAULIC ENERGY.

PERSONAL AUTHOR: THOMAS, DON

DESCRIPTOR: *ECONOMICS; *ENERGY; *ENERGY CONSERVATION; *CALIFORNIA; *HEAT; *ELECTRICITY; *OPERATIONS (WASTEWATER); *RESOURCE RECOVERY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 29-30P.

ABSTRACT: DESCRIBED ARE WASTEWATER TREATMENT FACILITIES IN SAN DIEGO, CALIFORNIA. THESE FACILITIES CAPTURE AND USE ENERGY FROM DIGESTER GAS AND ALSO FROM THE FLOW OF EFFLUENT.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N12

IRIS ACCESSION NUMBER: EW#14229

PUBLICATION DATE: DEC 86

TITLE: DESIGN ASSUMPTIONS KEY TO EGG-SHAPED DIGESTER COSTS.

PERSONAL AUTHOR: GARVIN, JOHN P.

DESCRIPTOR: *ANAEROBIC DIGESTERS; *DIGESTERS; *DESIGN; *FACILITIES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 31-34P.

ABSTRACT: DESCRIBED ARE EGG-SHAPED ANAEROBIC DIGESTERS AND SOME OF THE DESIGN ASSUMPTIONS THAT INFLUENCE OPERATING PERFORMANCE.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N12

IRIS ACCESSION NUMBER: EW#14230

PUBLICATION DATE: DEC 86

TITLE: DEWATERING SYSTEM OPTIMIZED DURING PLANT UPGRADE.

DESCRIPTOR: *CALIFORNIA; *DEWATERING; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 35-36P.

ABSTRACT: DESCRIBED ARE DEWATERING PROBLEMS AND SOLUTIONS AT A SAN FRANCISCO, CALIFORNIA WASTEWATER TREATMENT PLANT.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N12

IRIS ACCESSION NUMBER: EW#14323

PUBLICATION DATE: JAN 87

TITLE: SAVANNAH DEMONSTRATES VALUE OF PREVENTIVE SEWER SYSTEM MAINTENANCE.

DESCRIPTOR: *EQUIPMENT; *GEORGIA; *MAINTENANCE; *PREVENTIVE MAINTENANCE; *OPERATIONS (WASTEWATER); *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 51-53P.

ABSTRACT: NEW MACHINES ASSIST SEWER LINE PREVENTIVE MAINTENANCE IN A GEORGIA COMMUNITY.

AVAILABILITY: PUBLIC WORKS; V118 N1

IRIS ACCESSION NUMBER: EW#14324

PUBLICATION DATE: JAN 87

TITLE: RECENT ADVANCES IN WATER TREATMENT PROCESSES.

PERSONAL AUTHOR: KAWAMURA, SUSUMU

DESCRIPTOR: *CHEMICALS; *FACILITIES; *OPERATIONS (WASTEWATER); *RECENT ADVANCES; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 63-65, 104P.

ABSTRACT: DESCRIBED ARE RECENT ADVANCES IN WATER TREATMENT PROCESSES.

AVAILABILITY: PUBLIC WORKS; V118 N1

IRIS ACCESSION NUMBER: EW#14325

PUBLICATION DATE: JAN 87

TITLE: EVALUATING AND SELECTING FINE BUBBLE DIFFUSERS.

PERSONAL AUTHOR: HOUCK, DANIEL H.

DESCRIPTOR: ACTIVATED SLUDGE; BUBBLE DIFFUSERS; *BUBBLE AERATION SYSTEMS; *DESIGN; *MAINTENANCE; *INSTALLATION;

*OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 67-7#, 1#4P.

ABSTRACT: PRESENTED IS AN IN-DEPTH EXAMINATION OF BUBBLE AERATORS FOR WASTEWATER TREATMENT.

AVAILABILITY: PUBLIC WORKS; V118 N1

IRIS ACCESSION NUMBER: EW#14326

PUBLICATION DATE: JAN 87

TITLE: FAST TRACKING TO WATER QUALITY.

PERSONAL AUTHOR: MORIARTY, WILLIAM B.; MCCARTY, ROBERT

DESCRIPTOR: *DESIGN; *CONSTRUCTION; *FACILITIES; *TEXAS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 75-78P.

ABSTRACT: DESCRIBED IS THE EXPANSION OF A WASTEWATER TREATMENT PLANT IN TEXAS. ALTERNATIVES WERE REVIEWED AND PLANS WERE DEVELOPED IN A SHORT PERIOD OF TIME.

AVAILABILITY: PUBLIC WORKS; V118 N1

IRIS ACCESSION NUMBER: EW#14327

PUBLICATION DATE: AUG 86

TITLE: ANAEROBIC WASTEWATER TREATMENT - ATTACHED GROWTH AND SLUDGE BLANKET PROCESS.

PERSONAL AUTHOR: VIGNESWARAN, S.; AND OTHERS

DESCRIPTOR: *ANAEROBIC TREATMENT; *DESIGN; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1-1#1P.

ABSTRACT: DISCUSSED ARE VARIOUS ASPECTS OF ANAEROBIC WASTEWATER TREATMENT. SECTIONS INCLUDED ARE: (1) ANAEROBIC FILTER TREATMENT; (2) ANAEROBIC DOWNFLOW STATIONARY FIXED-FILM TREATMENT; (3) ANAEROBIC EXPANDED/FLUIDIZED BED TREATMENT; (4) UPFLOW ANAEROBIC SLUDGE BLANKET TREATMENT; AND (5) COMPARISON OF HIGH-RATE ANAEROBIC WASTEWATER TREATMENT FACTORS.

AVAILABILITY: ENVIRONMENTAL SANITATION REVIEWS; N19/2#

IRIS ACCESSION NUMBER: EW#14329

PUBLICATION DATE: JAN 87

TITLE: TRAINING PANELISTS FOR THE FLAVOR PROFILE ANALYSIS METHODS.

PERSONAL AUTHOR: BARTELS, JEROEN H. M.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER; *FLAVOR PROFILE ANALYSIS METHOD; *ODOR; *OPERATIONS (WATER); *TASTE; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 26-32P.

ABSTRACT: DESCRIBED IS THE TRAINING OF VOLUNTEER STUDENTS AT DREXEL UNIVERSITY FOR EVALUATING TASTE AND ODOR OF WATER. THE ARTICLE PRESENTS A GENERAL INTRODUCTION ABOUT TRAINING PANELISTS FOR THE FLAVOR PROFILE ANALYSIS (FPA) METHOD.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N1

IRIS ACCESSION NUMBER: EW#14330

PUBLICATION DATE: JAN 87

TITLE: PREVENTING THE FORMATION OF TRIHALOMETHANES IN FLORIDA GROUNDWATER.

PERSONAL AUTHOR: THOMPSON, JOHN C.; AMENO, JULES J.

DESCRIPTOR: *COLOR; *DRINKING WATER; *FLORIDA; *GROUNDWATER; *OPERATIONS (WATER); *TRIHALOMETHANES; *THM; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 38-42P.

ABSTRACT: WATER TREATMENT METHODS WERE CHANGED TO MEET THM AS WELL AS COLOR REGULATIONS FOR A FLORIDA COMMUNITY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N1

IRIS ACCESSION NUMBER: EW#14331

PUBLICATION DATE: JAN 87

TITLE: DEVELOPING HALOFORM FORMATION POTENTIAL TESTS.

PERSONAL AUTHOR: BATCHELOR, BILL; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER; *HALOFORM FORMATION POTENTIAL; *LABORATORY PROCEDURES; *OPERATIONS (WATER); *PROCESS CONTROLS; *TRIHALOMETHANE; *WATER TREATMENT

DESCRIPTIVE NOTE: 5#-55P.

ABSTRACT: THERE IS A NEED FOR ACCURATE, RAPID, AND EASILY

MEASURED SURROGATE PARAMETERS FOR THM FORMATION POTENTIAL TO AID IN THE CONTROL OF WATER TREATMENT PLANTS. THIS ARTICLE DESCRIBES THE RESULT OF A RESEARCH PROJECT TO TEST IODINE AND BROMINE IN THE TEST. RESULTS ARE REPORTED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V79 N1

IRIS ACCESSION NUMBER: EW#14332

PUBLICATION DATE: JAN 87

TITLE: TRAINING 1#1: BECOME A STATE-OF-THE-ART PRESENTER.

PERSONAL AUTHOR: BURRY, SUSAN E.; GARMSTON, ROBERT J.

DESCRIPTOR: *GROUP DYNAMICS; *INSTRUCTION; *PRESENTATIONS; *PRESENTATION TECHNIQUES

DESCRIPTIVE NOTE: 19-23P.

ABSTRACT: DESCRIBED ARE SUGGESTIONS FOR IMPROVING PRESENTATIONS. SUGGESTIONS INCLUDE AUDIENCE ANALYSIS, KNOWLEDGE OF TECHNIQUES, AND "PEOPLE SKILLS."

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW#14333

PUBLICATION DATE: JAN 87

TITLE: WHAT TO LOOK FOR WHEN YOU BUY TRAINING.

PERSONAL AUTHOR: TARTELL, ROSS

DESCRIPTOR: *CONTRACTING; *CRITERIA; *TRAINING

DESCRIPTIVE NOTE: 28-3#P.

ABSTRACT: THIS ARTICLE PRESENTS SEVEN CRITERIA TO USE WHEN BUYING TRAINING.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW#14334

PUBLICATION DATE: JAN 87

TITLE: DELEGATION FOR EMPLOYEE DEVELOPMENT.

PERSONAL AUTHOR: VINTON, DONNA

DESCRIPTOR: *DELEGATION; *EMPLOYEE DEVELOPMENT; *MANAGEMENT; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 65-67P.

ABSTRACT: SUGGESTIONS ARE GIVEN FOR DELEGATING TO IMPROVE

EMPLOYEES' JOB SATISFACTION, ORGANIZATIONAL COMMITMENT, AND KNOWLEDGE.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW#14335

PUBLICATION DATE: JAN 87

TITLE: MEASURING TRAINING RESULTS: KEY TO MANAGERIAL COMMITMENT.

PERSONAL AUTHOR: BELL, JAMES D.; KERR, DEBORAH L.

DESCRIPTOR: *EVALUATION; *MANAGEMENT; *PROGRAM EVALUATION; *STAFF DEVELOPMENT; *TRAINING

DESCRIPTIVE NOTE: 7#-73P.

ABSTRACT: THIS ARTICLE PROVIDES A CASE STUDY OF AN EFFECTIVE TRAINING EVALUATION PROGRAM.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW#14336

PUBLICATION DATE: JAN 87

TITLE: BIOLOGICAL TESTING TO CONTROL TOXIC WATER POLLUTANTS.

PERSONAL AUTHOR: WALL, THOMAS M.; HANMER, REBECCA W.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BIOLOGICAL TESTING; *DISCHARGE LIMITS; *EFFLUENT; *MONITORING; *PRIORITIES; *REGULATIONS; *TOXIC SUBSTANCES; *USEPA; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 7-12P.

ABSTRACT: TOXICITY TESTING CAN IMPROVE THE ASSESSMENT AND CONTROL OF TOXIC WATER POLLUTANTS; THE PROCEDURES HAVE BEEN USED SUCCESSFULLY FOR A VARIETY OF PURPOSES. IN THE NEXT SEVERAL YEARS, USEPA WILL PUSH FOR INCREASED USE TO CONTROL WASTEWATER DISCHARGES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N1

IRIS ACCESSION NUMBER: EW#14337

PUBLICATION DATE: JAN 87

TITLE: DEVELOPMENT OF A RATIONALLY BASED DESIGN PROTOCOL FOR THE ULTRAVIOLET LIGHT DISINFECTION PROCESS.

PERSONAL AUTHOR: SCHEIBLE, D. KARL

DESCRIPTOR: *DISINFECTION; *MODELS; *OPERATIONS (WASTEWATER); *ULTRAVIOLET RADIATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 25-31P.

ABSTRACT: DESCRIBED IS A MODEL THAT CAN TEST THE EFFECTS OF LAMP INTENSITY, LIGHT DISPERSION, AND FLOW VELOCITY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N1

IRIS ACCESSION NUMBER: EW#14338

PUBLICATION DATE: JAN 87

TITLE: FATE OF ORGANIC COMPOUNDS IN LAND APPLICATION OF CONTAMINATED MUNICIPAL SLUDGE.

PERSONAL AUTHOR: DEMIRJIAN, Y. A.; AND OTHERS

DESCRIPTOR: *COSTS; *CONTAMINATION; *GROUNDWATER; *LAND APPLICATION; *MUNICIPAL SLUDGE; *ORGANIC COMPOUNDS; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 32-38P.

ABSTRACT: RECYCLING CONTAMINATED GROUNDWATER THROUGH SLUDGE BEDS FOLLOWED BY ISOLATION AND LAND APPLICATION OF THE SLUDGE MAY BE A COST-EFFECTIVE TREATMENT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N1

IRIS ACCESSION NUMBER: EW#14339

PUBLICATION DATE: JAN 87

TITLE: WET AIR OXIDATION OF ANAEROBICALLY DIGESTED SLUDGE.

PERSONAL AUTHOR: WU, Y. C.; AND OTHERS

DESCRIPTOR: *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SLUDGE; *SLUDGE MANAGEMENT; *TEMPERATURE; *WASTEWATER TREATMENT; *WET AIR OXIDATION

DESCRIPTIVE NOTE: 39-46P.

ABSTRACT: TEMPERATURE WAS THE MOST SIGNIFICANT PARAMETER; SETTLEABILITY WAS IMPROVED FOR A VARIETY OF SLUDGE TYPES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N1

IRIS ACCESSION NUMBER: EW#14340

PUBLICATION DATE: JAN 87

TITLE: SIDE STREAMS IN WASTEWATER TREATMENT PLANTS.

DESCRIPTOR: DESIGN; MASS BALANCE; *OPERATIONS (WASTEWATER TREATMENT); *PERFORMANCE EVALUATION; *SIDESTREAMS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 54-59P.

ABSTRACT: THIS REPORT ADDRESSES HANDLING OF RECYCLE FLOWS AND LOADS, SOURCES AND CHARACTERISTICS OF SIDESTREAMS, POTENTIAL ADVERSE IMPACTS OF SIDESTREAMS ON PLANT PERFORMANCE, DESIGN AND OPERATION PROCEDURES THAT CAN REDUCE SIDESTREAM IMPACT, AND USE OF A MASS BALANCE TO ASSESS SIDESTREAM IMPACTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N1

IRIS ACCESSION NUMBER: EW#14341

PUBLICATION DATE: JAN 87

TITLE: CLARIFIER TUNE-UP.

PERSONAL AUTHOR: ESLER, JOHN K.; MILLER, TIMOTHY J.

DESCRIPTOR: *CLARIFIERS; *EQUIPMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 7-11P.

ABSTRACT: DISCUSSED ARE OPERATION AND MAINTENANCE PROCEDURES TO KEEP CLARIFIERS PERFORMING EFFECTIVELY.

AVAILABILITY: OPERATIONS FORUM; V4 N1

IRIS ACCESSION NUMBER: EW#14342

PUBLICATION DATE: JAN 87

TITLE: A BAFFLING SOLUTION.

PERSONAL AUTHOR: SEYMOUR, DAN

DESCRIPTOR: *BAFFLES; *EQUIPMENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SETTLING TANKS; *TROUBLESHOOTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 12-13P.

ABSTRACT: DESCRIBED IS THE USE OF BAFFLES TO IMPROVE THE OPERATION OF FINAL SETTLING TANKS.

AVAILABILITY: OPERATIONS FORUM; V4 N1

IRIS ACCESSION NUMBER: EW#14343

PUBLICATION DATE: JAN 87

TITLE: MORE ON SLUDGE WASTING.

PERSONAL AUTHOR: HOBSON, TIM
DESCRIPTOR: *MANAGEMENT; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *SLUDGE; *SLUDGE WASTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 14-19P.

ABSTRACT: THIS IS THE EIGHTH ARTICLE OF A SERIES ON PROCESS CONTROL. THIS ARTICLE PROVIDES ADDITIONAL INFORMATION ON SLUDGE WASTING AND HOW TO CONTROL IT.

AVAILABILITY: OPERATIONS FORUM; V4 N1

IRIS ACCESSION NUMBER: EW#14344

PUBLICATION DATE: JAN 87

TITLE: UNDERSTANDING CHEMICAL HAZARDS.

PERSONAL AUTHOR: NIEDRINGHAUS, LANDON; NIEDRINGHAUS, LINDA

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL HAZARDS; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *MONITORING; *OPERATIONS (WASTEWATER); *SPILLS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 2#-24P.

ABSTRACT: DISCUSSED ARE A VARIETY OF CHEMICAL HAZARDS AND SUGGESTIONS ARE PROVIDED FOR ACTION TO PREVENT PROBLEMS OR TO HANDLE PROBLEMS IF THEY SHOULD OCCUR.

AVAILABILITY: OPERATIONS FORUM; V4 N1

IRIS ACCESSION NUMBER: EW#14345

PUBLICATION DATE: JAN 87

TITLE: ENVIRONMENTAL SOFTWARE REVIEW - 1987.

PERSONAL AUTHOR: CHEREMISINOFF, NICHOLAS P.

DESCRIPTOR: AIR POLLUTION CONTROL; AIR QUALITY; *COMPUTER SOFTWARE; *COMPUTER APPLICATIONS; HAZARDOUS WASTES; *MANAGEMENT; OPERATIONS (WASTEWATER); SOLID WASTES; WASTEWATER TREATMENT; *DATA MANAGEMENT; *ENVIRONMENT; TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 3#-43P.

ABSTRACT: THIS ARTICLE SUMMARIZES ENVIRONMENTAL SOFTWARE AND PROVIDES A DETAILED LOOK AT SOME SOFTWARE PACKAGES FOR AIR DISPERSION, WATER TREATMENT PLANT CONTROL, AND HAZARDOUS AND SOLID WASTE DATA MANAGEMENT. A LIST OF PUBLISHERS OF THE SOFTWARE PROGRAMS IS INCLUDED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N1

IRIS ACCESSION NUMBER: EW#14346
PUBLICATION DATE: JAN 87

TITLE: THE NEW SUPERFUND: SUMMARY OF ITS REAUTHORIZATION.

PERSONAL AUTHOR: STEINWAY, DANIEL M.

DESCRIPTOR: *CLEANUP; *HAZARDOUS WASTES; *FUNDING; *LEGISLATION; *POLLUTION CONTROL; *REGULATIONS; *SUPERFUND; *SUPERFUND REAUTHORIZATION; *TOXIC SUBSTANCES; *USEPA

DESCRIPTIVE NOTE: 46-49P.

ABSTRACT: PRESENTED IS A SUMMARY OF THE SUPERFUND REAUTHORIZATION LEGISLATION.

AVAILABILITY: POLLUTION ENGINEERING; V19 N1

IRIS ACCESSION NUMBER: EW#14347

PUBLICATION DATE: JAN 87

TITLE: TAKING SERIOUSLY THE REDUCTION OF HAZARDOUS WASTE.

PERSONAL AUTHOR: HIRSCHHORN, JOEL S.; OLDENBURG, KIRSTEN U.

DESCRIPTOR: *FEDERAL REPORTS; *HAZARDOUS WASTES; FEDERAL ROLE; *POLLUTION CONTROL; *REGULATIONS; TOXIC SUBSTANCES; *WASTE REDUCTION; WASTE DISPOSAL; *RECOMMENDATIONS

DESCRIPTIVE NOTE: 5#-51P.

ABSTRACT: SUMMARIZED ARE SOME OF THE FINDINGS REPORTED IN A RECENT REPORT (SERIOUS REDUCTION OF HAZARDOUS WASTE) BY THE OFFICE OF TECHNOLOGY ASSESSMENT OF THE U.S. CONGRESS. A MAJOR THEME OF THE REPORT IS THAT THE PRODUCTION OF HAZARDOUS WASTES NEEDS TO BE REDUCED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N1

IRIS ACCESSION NUMBER: EW#14348

PUBLICATION DATE: JAN 87

TITLE: MANAGEMENT OF ENVIRONMENTAL INFORMATION.

PERSONAL AUTHOR: BOWER, JAMES

DESCRIPTOR: *DATABASES; *DESIGN; *ENVIRONMENT; *INFORMATION SYSTEMS; *MANAGEMENT; *OPERATIONS

DESCRIPTIVE NOTE: 52-55P.

ABSTRACT: THIS ARTICLE PROVIDES AN OUTLINE FOR DESIGN CRITERIA FOR A SUCCESSFUL ENVIRONMENTAL DATABASE AND DESCRIBES SUGGESTIONS FOR AVOIDING OR REDUCING OPERATIONAL PROBLEMS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N1

IRIS ACCESSION NUMBER: EW#14349
PUBLICATION DATE: JAN 87

TITLE: RETROFIT ENDS GAS LOSSES.

PERSONAL AUTHOR: ZUEHLKE, KARL R.

DESCRIPTOR: *COSTS; *DIGESTERS; *ENERGY; *GAS CAPTURE SYSTEMS; *FACILITIES; *RECYCLING; *RESOURCE RECOVERY; *WASTEWATER TREATMENT; *METHANE; *WISCONSIN

DESCRIPTIVE NOTE: 2#-22P.

ABSTRACT: DESCRIBED IS A METHANE GAS CAPTURE SYSTEM AT A WISCONSIN WASTEWATER TREATMENT PLANT. THE SYSTEM IS EXPECTED TO PAYBACK COSTS IN ABOUT 4# MONTHS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS ACCESSION NUMBER: EW#14350

PUBLICATION DATE: JAN 87

TITLE: FINE TUNING PROCESS LEADS TO SUCCESS.

DESCRIPTOR: *ADVANCED WASTEWATER TREATMENT; *BUBBLE DIFFUSERS; *AERATION SYSTEMS; *COSTS; *FACILITIES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 23, 33P.
ABSTRACT: DESCRIBED IS A CERAMIC FINE-BUBBLE DIFFUSION AERATION SYSTEM IN A CONNECTICUT WASTEWATER TREATMENT FACILITY.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS ACCESSION NUMBER: EW#14351

PUBLICATION DATE: JAN 87

TITLE: PRIVATIZATION IS WORKING IN AUBURN, ALABAMA.

DESCRIPTOR: *ALABAMA; *COSTS; *FACILITIES; *FINANCING; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PRIVATIZATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 24-26P.

ABSTRACT: DESCRIBED IS A PRIVATIZATION PROGRAM IN AN ALABAMA COMMUNITY THAT PROVIDES WASTEWATER TREATMENT FACILITIES AND OPERATIONS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS ACCESSION NUMBER: EW#14352
PUBLICATION DATE: JAN 87

TITLE: CONTRACT OPS SOLVE NEW PLANT'S PROBLEMS.

PERSONAL AUTHOR: JACKSON, R. KEITH; HORTON, DOUGLAS W.

DESCRIPTOR: *CONTRACT AGREEMENTS; *COSTS; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TRAINING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3#-33P.

ABSTRACT: DESCRIBED IS A CONTRACT PROGRAM FOR OPERATING A TENNESSEE WASTEWATER TREATMENT FACILITY.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS ACCESSION NUMBER: EW#14353

PUBLICATION DATE: JAN 87

TITLE: THE DIRECTION OF LIGHT: CAMERA MOVES.

PERSONAL AUTHOR: SHAMAN, HARREY

DESCRIPTOR: *AUDIOVISUAL AIDS; *CAMERAS; *LIGHTING; *LIGHT; *PHOTOGRAPHY

DESCRIPTIVE NOTE: 18-25P.
ABSTRACT: THIS ARTICLE IS A PART OF A SERIES THAT REVIEW LIGHT AND LIGHTING TECHNIQUES. THIS ARTICLE DESCRIBES WHAT HAPPENS WHEN THE CAMERA MOVES WHILE THE SUBJECT AND THE LIGHT SOURCE REMAIN STATIONARY. REFERENCES ARE PROVIDED TO PREVIOUS ARTICLES IN THE SERIES.

AVAILABILITY: TECHNICAL PHOTOGRAPHY; V19 N1

IRIS ACCESSION NUMBER: EW#14354

PUBLICATION DATE: 87

TITLE: HOW DRILLING FLUIDS AND GROUTING MATERIALS AFFECT THE INTEGRITY OF GROUND WATER SAMPLES FROM MONITORING WELLS.

PERSONAL AUTHOR: GIBB, JAMES P.

DESCRIPTOR: *DRILLING FLUIDS; *GROUNDWATER; *GROUTING MATERIALS; *MONITORING WELLS; *RECOMMENDATIONS; *WELL DRILLING

DESCRIPTIVE NOTE: 33-42P.

ABSTRACT: DESCRIBED ARE THE EFFECTS OF DRILLING FLUIDS AND GROUTING MATERIALS ON GROUND WATER AND MONITORING WELLS.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V7 N1

IRIS ACCESSION NUMBER: EW#14355

PUBLICATION DATE: WIN 87

TITLE: SOME EUROPEAN PRESPECTIVES ON PREVENTION OF LEAKS FROM UNDERGROUND PETROLEUM STORAGE SYSTEMS.

PERSONAL AUTHOR: MOREAU, MARCEL

DESCRIPTOR: *LEAK PREVENTION; *LEAK DETECTION; EUROPE; GROUNDWATER; *OIL; *PETROLEUM; RECOMMENDATIONS; REGULATIONS; *STORAGE TANKS; TRENDS; *UNDERGROUND STORAGE TANKS; WATER QUALITY

DESCRIPTIVE NOTE: 45-48P.

ABSTRACT: PROVIDED ARE SOME PERSPECTIVES ON THE PREVENTION OF LEAKS FROM UNDERGROUND PETROLEUM STORAGE SYSTEMS BASED ON OBSERVATIONS AND DISCUSSIONS RELATED TO PRACTICES IN FOUR EUROPEAN COUNTRIES.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V7 N1

IRIS ACCESSION NUMBER: EW#14356

PUBLICATION DATE: WIN 87

TITLE: DETECTING CHANGES IN GROUND WATER QUALITY AT REGULATED FACILITIES.

PERSONAL AUTHOR: LOFTIS, JIM C.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *GROUNDWATER; *MONITORING; *SAMPLING; *STATISTICS; *WATER QUALITY

DESCRIPTIVE NOTE: 72-76P.

ABSTRACT: PRESENTED IS A GENERAL APPROACH FOR ANALYZING GROUND WATER DATA. THE SUGGESTED APPROACH ACCOUNTS FOR "NATURAL" VARIATION IN BACKGROUND WATER QUALITY THROUGH PAIRING OF OBSERVATIONS. THE LIMITING OF QUARTERLY SAMPLING FOR DETECTING SMALL CHANGES IN QUALITY OVER A SHORT TIME FRAME ARE DISCUSSED.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V7 N1

IRIS ACCESSION NUMBER: EW#14357

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE CONTINGENCY PLANNING.

PERSONAL AUTHOR: SHIELDS, J.; AND OTHERS

DESCRIPTOR: *ACCIDENT PREVENTION; *CONTINGENCY PLANNING; *HAZARDOUS WASTES; *ENVIRINMENT; *MANAGEMENT; *PUBLIC HEALTH; *PLANNING; *PRIORITIES

DESCRIPTIVE NOTE: 334-341P.

ABSTRACT: CONTINGENCY PLANNING, USING THE BROADEST DEFINITION, MAY BE DEFINED AS THE PLANNING FOR EMERGENCIES AND DISASTERS THAT OCCUR NATURALLY AS A RESULT OF HUMAN ACTIVITY. THIS PAPER CONSIDERS ONE METHOD USED TO ASSIGN PRIORITIES FOR CONTINGENCY PLAN DEVELOPMENT BASED ON EVENT COST AND PROBABILITY OF OCCURRENCE INFORMATION OBTAINED FROM AN ENVIRONMENTAL AUDIT. THIS TYPE OF APPROACH FOCUSES ON THOSE AREAS HAVING THE HIGHEST PROBABILITIES FOR OCCURRENCE AND IS ORIENTED TOWARD MINIMIZING OCCURRENCE AND SUBSEQUENT IMPACTS OF EMERGENCIES INVOLVING HAZARDOUS WASTE.

AVAILABILITY: ENVIRONMENTAL PROFESSIONAL; V8 N4

IRIS ACCESSION NUMBER: EW#14358

PUBLICATION DATE: FEB 87

TITLE: USING COST-EFFECTIVE WASTEWATER OPTIONS.

PERSONAL AUTHOR: LOMBARDO, PIO

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *COSTS; *CONSTRUCTION; *INNOVATIVE TECHNOLOGY; *OPERATIONS (WASTEWATER); *REHABILITATION; *TECHNOLOGY; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 28-34P.

ABSTRACT: DESCRIBED ARE OPTIONS FOR WASTEWATER COLLECTION AND TREATMENT THAT CAN FREQUENTLY REDUCE COSTS OF CONSTRUCTION AND OPERATION.

AVAILABILITY: AMERICAN CITY AND COUNTY; V1#2 N2

IRIS ACCESSION NUMBER: EW#14359

PUBLICATION DATE: FEB 87

TITLE: WASTEWATER RATES RISING AS REQUIREMENTS INCREASE.

DESCRIPTOR: *COSTS; *WASTEWATER TREATMENT RATES; *WASTEWATER TREATMENT; *SURVEYS; *TRENDS

DESCRIPTIVE NOTE: 37-39P.

ABSTRACT: REPORTED ARE DATA FROM A 1986 NATIONAL WASTEWATER RATE SURVEY. DATA INDICATE WASTEWATER RATES ARE RISING AS REQUIREMENTS FOR COLLECTION AND TREATMENT INCREASE.

AVAILABILITY: AMERICAN CITY AND COUNTY; V1#2 N2

IRIS ACCESSION NUMBER: EW#14360

PUBLICATION DATE: FEB 87

TITLE: WASTE DISPOSAL ISSUES SURVEYED.

PERSONAL AUTHOR: SCHWARZ, STEPHEN; SHELSTAD, MERLIN J.

DESCRIPTOR: *OPINION POLLS ; ECONOMICS; *SOLID WASTES; *RECYCLING; *SURVEYS; *RESOURCE RECOVERY; *WASTE DISPOSAL; *WASTE REDUCTION; *TRENDS; ENVIRONMENT; REGULATIONS

DESCRIPTIVE NOTE: 42-48P.

ABSTRACT: REPORTED ARE THE RESULTS OF A DELPHI POLL OF 39 INDUSTRY LEADERS RELATED TO THE FUTURE ISSUES OF SOLID WASTE MANAGEMENT.

AVAILABILITY: AMERICAN CITY AND COUNTY; V1#2 N2

IRIS ACCESSION NUMBER: EW#14361

PUBLICATION DATE: FEB 87

TITLE: HELP IS AVAILABLE FOR CHEMICAL QUERIES.

PERSONAL AUTHOR: ALFORD, PAULA N.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *COMMUNITY AWARENESS AND EMERGENCY RESPONSE; *EMERGENCY RESPONSE; *EMERGENCY RESPONSE PLANS; *PLANNING; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 50-53P.

ABSTRACT: DISCUSSED ARE VARIOUS PLANNING EFFORTS AND RESOURCES AVAILABLE FOR CHEMICAL EMERGENCY RESPONSES.

AVAILABILITY: AMERICAN CITY AND COUNTY; V1#2 N2

IRIS ACCESSION NUMBER: EW#14362

PUBLICATION DATE: FEB 87

TITLE: DESIGNING WATER TREATMENT FACILITIES.

PERSONAL AUTHOR: MONK, ROBERT D. G.; WILLIS, JOHN F.

DESCRIPTOR: *COSTS; *DESIGN; *FACILITIES; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 45-57P.

ABSTRACT: COST-EFFECTIVE DESIGN INCORPORATING MODERN ENGINEERING AND OPERATING PRACTICES REQUIRES OPTIMIZATION OF ALL COMPONENTS OF THE WATER TREATMENT TRAIN.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V72 N1

IRIS ACCESSION NUMBER: EW#14363

PUBLICATION DATE: FEB 87

TITLE: MITIGATING COPPER PITTING THROUGH WATER TREATMENT.

PERSONAL AUTHOR: COHEN, ARTHUR; MYERS, JAMES R.

DESCRIPTOR: *CORROSION CONTROL; *CORROSION; *CORROSION PREVENTION; *COPPER PIPES; *DRINKING WATER; *OHIO; *PIPES; *WATER DISTRIBUTION; *WATER PIPES; *WATER TREATMENT; *WATER QUALITY; *WATER SUPPLY; *SODIUM CARBONATE

DESCRIPTIVE NOTE: 58-61P.

ABSTRACT: TREATMENT OF WELL WATER WITH SODA ASH TO MAINTAIN A PH OF 8.1 TO 8.3 HALTED CORROSION OF COPPER PIPING IN RESIDENCES IN OHIO.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION; V72 N2

IRIS ACCESSION NUMBER: EW#14364

PUBLICATION DATE: FEB 87

TITLE: CORROSION MONITORING AND CONTROL IN THE PACIFIC NORTHWEST.

PERSONAL AUTHOR: REIBER, STEVE H.; AND OTHERS

DESCRIPTOR: *CORROSION; *CORROSION CONTROL; *CORROSION PREVENTION; *CHLORINE; *CHLORINE RESIDUAL; *COPPER PIPES; *PH; *PIPES; *WATER PIPES; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 71-74P.

ABSTRACT: AN 18-MONTH MONITORING PROGRAM FOUND SIGNIFICANT RELATIONSHIPS BETWEEN PH AND FREE CHLORINE RESIDUAL IN TREATED WATER AND THE RATE OF COPPER CORROSION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION; V72 N2

IRIS ACCESSION NUMBER: EW#14366

PUBLICATION DATE: JAN 87

TITLE: THE DEVELOPMENT OF STATE POLICIES AND SYSTEMS FOR TOXIC SUBSTANCE MANAGEMENT.

PERSONAL AUTHOR: WALKER, BAILUS, JR.; LI, VIVIEN

DESCRIPTOR: *CHEMICALS; *HAZARDOUS MATERIALS; *POLICIES; *MANAGEMENT; *MASSACHUSETTS; *STATE ROLE; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 282-286P.

ABSTRACT: THIS PAPER EXPLORES THE ROLE OF STATES IN DEVELOPING POLICIES AND PROGRAMS TO DEAL WITH CHEMICAL EXPOSURE. TO BE EFFECTIVE, STATES NEED TO DEVELOP MORE EXPERTISE IN THE ASSESSMENT OF CHEMICALS AND IN THE IMPLEMENTATION AND ENFORCEMENT OF CHEMICAL REGULATIONS, TRAINING OF PERSONNEL, AND THE ESTABLISHMENT OF LABORATORIES AND OTHER SERVICES. EFFORTS BY MASSACHUSETTS TO DEVELOP DATA SYSTEMS AND OTHER ELEMENTS FOR MANAGING EXPOSURE TO HAZARDOUS MATERIALS ARE DESCRIBED.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V49 N4

IRIS ACCESSION NUMBER: EW#14367

PUBLICATION DATE: FEB 87

TITLE: PUTTING THE GROUNDWATER MONITORING PIECES TOGETHER.

PERSONAL AUTHOR: COHEN, DONALD K; SMIRIGLIO, SERGIO A.

DESCRIPTOR: *GROUNDWATER; *MONITORING; *POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 24-26P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR MONITORING GROUNDWATER.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N2

IRIS ACCESSION NUMBER: EW#14368

PUBLICATION DATE: FEB 87

TITLE: NEW APPLICATION FOR A TRIED TECHNOLOGY.

PERSONAL AUTHOR: VARANI, ANNETTE

DESCRIPTOR: *COLORADO; *DRINKING WATER; *ION EXCHANGE; *OPERATIONS (WATER); *RADIATION; *URANIUM; *WATER TREATMENT; *POLLUTION CONTROL; *PUBLIC HEALTH

DESCRIPTIVE NOTE: 27-29P.

ABSTRACT: DESCRIBED IS AN ION EXCHANGE PROCESS FOR REMOVING URANIUM FROM DRINKING WATER. THE PROCESS IS USED TO TREAT WATER USED BY A COLORADO SCHOOL DISTRICT.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N2

IRIS ACCESSION NUMBER: EW#14369

PUBLICATION DATE: FEB 87

TITLE: APPLYING BELT CONVEYING SYSTEMS IN TREATMENT PLANTS.

PERSONAL AUTHOR: CRAVEN, CHARLES G.

DESCRIPTOR: *BELT CONVEYING SYSTEMS; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3#-31P.

ABSTRACT: DESCRIBED IS THE APPLICATION OF BELT CONVEYING SYSTEM TECHNOLOGY TO WASTEWATER TREATMENT OPERATIONS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N2

IRIS ACCESSION NUMBER: EW#14375

PUBLICATION DATE: FEB 87

TITLE: 1986 NEEDS SURVEY REPORT TO CONGRESS. ASSESSMENT OF NEEDED PUBLICLY OWNED WASTEWATER TREATMENT FACILITIES IN THE UNITED STATES.

DESCRIPTOR: *COMPLIANCE; *CURRENT NEEDS; *CLEAN WATER ACT; *COSTS; *FACILITIES; *FUNDING; *FINANCING; *FUTURE NEEDS; *FEDERAL ROLE; *NEED ASSESSMENT; *OPERATIONS (WASTEWATER); *PLANNING; *STATE ROLE; *SURVEYS; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 72P. PRICE: $2.##

ABSTRACT: THIS REPORT PROVIDES THE USEPA'S DETAILED ESTIMATE OF THE CAPITAL COSTS NEEDED TO BUILD PUBLICLY OWNED MUNICIPAL WASTEWATER TREATMENT FACILITIES TO COMPLY WITH THE CLEAN WATER ACT. IN ADDITION DATA ARE PRESENTED ON (1) FACILITIES WITH DOCUMENTED PROBLEMS, (2) TYPES OF TREATMENT, AND (3) NEEDS OF FACILITIES NOT IN COMPLIANCE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14393

PUBLICATION DATE: FEB 87

TITLE: ALTERNATING AEROBIC AND ANAEROBIC OPERATION OF AN ACTIVATED SLUDGE PLANT.

PERSONAL AUTHOR: GONZALEZ-MARTINEZ, SIMON; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; *AEROBIC OPERATIONS; *ANAEROBIC OPERATIONS; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SECONDARY TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 65-71P.

ABSTRACT: ADDING AERATION TANKS INTO OR TAKING THEM FROM SERVICE IS A MEANS OF CONSERVING BIOLOGICAL ENERGY WHEN THAT ENERGY IS SCARCE AND USING THE MICROORGANISM POPULATION EFFICIENTLY; SLUDGE ACTIVITY IS NOT AFFECTED WHEN STORED ANAEROBICALLY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N2

IRIS ACCESSION NUMBER: EW#14394

PUBLICATION DATE: FEB 87

TITLE: EVALUATION OF A PULSED BED FILTER FOR FILTRATION OF MUNICIPAL PRIMARY EFFLUENT.

PERSONAL AUTHOR: BROWN, DONALD S.

DESCRIPTOR: *DESIGN; *FILTERS; *FILTRATION; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PRIMARY EFFLUENT; *PULSED BED FILTERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 72-78P.

ABSTRACT: OPERATION OF THE FILTER UNIT WAS GENERALLY RELIABLE BUT ROUTINE CLEANING IS ESSENTIAL FOR PREVENTING EXCESSIVE SLIME, CEMENTING OF SAND, OR SAND LOSS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N2

IRIS ACCESSION NUMBER: EW#14395

PUBLICATION DATE: FEB 87

TITLE: CONVERSION OF SMALL MUNICIPAL WASTEWATER TREATMENT PLANTS TO SEQUENCING BATCH REACTORS.

PERSONAL AUTHOR: MELCER H.; AND OTHERS

DESCRIPTOR: *DESIGN; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SEQUENCING BATCH REACTORS; *SMALL FLOWS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 79-85P.

ABSTRACT: IN SMALL PLANTS SEQUENCING BATCH REACTORS CAN HANDLE TENFOLD VARIATIONS IN HYDRAULIC LOADING, AND REQUIRE A DIFFERENT DESIGN APPROACH THAN CONTINUOUS INFLOW SYSTEMS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N2

IRIS ACCESSION NUMBER: EW#14396

PUBLICATION DATE: FEB 87

TITLE: IMPROVING HEAVY METAL SLUDGE DEWATERING CHARACTERISTICS BY RECYCLING PREFORMED SLUDGE SOLIDS.

PERSONAL AUTHOR: KNOCKE, WILLIAM R.; KELLEY, ROY T.

DESCRIPTOR: *HEAVY METALS; *METALS; *OPERATIONS (WASTEWATER); *SLUDGE; *SLUDGE TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 86-91P.

ABSTRACT: RECYCLING SLUDGE SOLIDS PRODUCED FLOCS THAT WERE LARGER AND MORE DENSE, AND THE RATE AND EXTENT OF DEWATERING WERE MARKEDLY IMPROVED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N2

IRIS ACCESSION NUMBER: EW#14397

PUBLICATION DATE: FEB 87

TITLE: PLANNING A CHEMICAL HANDLING SYSTEM.

PERSONAL AUTHOR: MEHTA, HARENDRA; AND OTHERS

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *CHLORINE; *EQUIPMENT; *FACILITIES; *HAZARDOUS MATERIALS; *MAINTENANCE; *OPERATIONS (WASTEWATER); *SAFETY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 15-17P.

ABSTRACT: DESCRIBED ARE PROCEDURES AND FACILITIES FOR HANDLING CHLORINE. THE PROCEDURES DESCRIBED ARE FOR WASTEWATER TREATMENT OPERATIONS.

AVAILABILITY: OPERATIONS FORUM; V4 N2

IRIS ACCESSION NUMBER: EW#14398

PUBLICATION DATE: FEB 87

TITLE: DESIGNING AN EFFECTIVE SAFETY PROGRAM.

PERSONAL AUTHOR: FORSMAN, J. PARKER

DESCRIPTOR: *ACCIDENT PREVENTION; *OPERATIONS (WASTEWATER); *PLANNING; *SAFETY; *SAFETY PROGRAM; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 18-2#P.

ABSTRACT: DESCRIBED ARE THE CHARACTERISTICS AND THE DESIGN OF AN EFFECTIVE SAFETY PROGRAM FOR WASTEWATER TREATMENT OPERATIONS.

AVAILABILITY: OPERATIONS FORUM; V4 N2

IRIS ACCESSION NUMBER: EW#14399

PUBLICATION DATE: FEB 87

TITLE: OXYGEN: HOW LOW CAN YOU GO?

PERSONAL AUTHOR: HICKMAN, DONALD L.

DESCRIPTOR: *ACCIDENT PREVENTION; *OXYGEN LEVELS; *SAFETY; *REGULATIONS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 21-23P.

ABSTRACT: DESCRIBED ARE SOME SAFETY CONDITIONS THAT CREATE OR RESULT IN LOW OXYGEN LEVELS AND OXYGEN LEVELS THAT SHOULD BE CONSIDERED DANGEROUS.

AVAILABILITY: OPERATIONS FORUM; V4 N2

IRIS ACCESSION NUMBER: EW0144##
PUBLICATION DATE: FEB 87

TITLE: RETURN SLUDGE FLOW CONTROL. FUNDAMENTALS PROCESS CONTROL PART IX.

PERSONAL AUTHOR: HOBSON, TIM

DESCRIPTOR: *ACTIVATED SLUDGE PROCESS; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *RETURN SLUDGE RATES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 24-29P.

ABSTRACT: THIS ARTICLE IS THE FOURTH IN A SERIES ON THE ACTIVATED SLUDGE PROCESS. THIS ARTICLE IS CONCERNED WITH RETURN SLUDGE RATES.

AVAILABILITY: OPERATIONS FORUM; V4 N2

IRIS ACCESSION NUMBER: EW0144#1

PUBLICATION DATE: FEB 87

TITLE: UPDATE: HAZARDOUS WASTE TREATMENT.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: ENVIRONMENT; PUBLIC HEALTH; *HAZARDOUS WASTES; *COSTS; *TECHNOLOGY; *WASTE DISPOSAL; *WASTE TREATMENT; PLANNING; *COMPLIANCE

DESCRIPTIVE NOTE: 42-49P.

ABSTRACT: THIS REPORT EXAMINES SOME ADVANCES AND ISSUES IN AVAILABLE TREATMENT AND DISPOSAL SYSTEMS FOR HAZARDOUS WASTES.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW0144#2

PUBLICATION DATE: FEB 87

TITLE: UST'S AND CORROSION SCIENCE.

PERSONAL AUTHOR: CIGNATTA, JOHN V.

DESCRIPTOR: *COMPLIANCE; *CORROSION; *CORROSION CONTROL; *GROUNDWATER; *POLLUTION CONTROL; *STORAGE TANKS; *UNDERGROUND STORAGE TANKS; *WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 52-56P.

ABSTRACT: THIS ARTICLE CONSIDERS UNDERGROUND STORAGE TANKS AND THE PROBLEM OF CORROSION. STANDARDS AND PROCEDURES FOR CATHODIC PROTECTION ARE DISCUSSED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW0144#3

PUBLICATION DATE: FEB 87

TITLE: AUTOMATED POLYMER FEEDING REPLACES SETTLING PONDS.

PERSONAL AUTHOR: WATTS, MARVIN

DESCRIPTOR: *COAL WASHING; COAL; COSTS; *COAL INDUSTRY; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *WATER TREATMENT; *RECYCLING; *WATER POLLUTION CONTROL; *WATER REUSE

DESCRIPTIVE NOTE: 58-59P.

ABSTRACT: DESCRIBED IS A PROCESS FOR TREATING WATER FROM COAL-WASHING OPERATIONS TO REMOVE THE SOLIDS. THE PROCEDURE ELIMINATES THE USE OF OUTDOOR PONDS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW0144#4

PUBLICATION DATE: FEB 87

TITLE: CRISIS MANAGEMENT: PREPARATION CHECKLIST.

PERSONAL AUTHOR: RICH, GERALD A.

DESCRIPTOR: *ACCIDENT PREVENTION; *CRISIS MANAGEMENT; *EMERGENCIES; *HAZARDOUS MATERIALS; *ENVIRONMENT; *MANAGEMENT; *PLANNING; *PUBLIC HEALTH; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 62-64P.

ABSTRACT: THIS ARTICLE PRESENTS A CRISIS MANAGEMENT PREPARATION LIST. THE INTENT OF THE PLAN IS PROVIDE PLANNING FOR WAYS TO AVOID CRISIS AND WHAT TO DO BEFORE, DURING, AND AFTER A CRISIS OCCURS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW0144#5

PUBLICATION DATE: FEB 87

TITLE: VACUUM VOC'S FROM SOIL.

PERSONAL AUTHOR: BENNEDSEN, MB

DESCRIPTOR: *CHEMICALS; *CHEMICAL SPILLS; *CLEANUP; *EMERGENCIES; *ORGANIC CHEMICALS; *SOILS; *TECHNOLOGY; *VACUUM TECHNOLOGY; *SOIL GAS VAPOR EXTRACTION SYSTEMS; *VOLATILE ORGANIC COMPOUNDS; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 66-68P.

ABSTRACT: DESCRIBED ARE VACUUM TECHNIQUES FOR REMOVING SPILLED VOLATILE ORGANIC COMPOUNDS FROM SOIL.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW#144#6

PUBLICATION DATE: FEB 87

TITLE: MAKING QUALITY CONTROL THEORIES WORKABLE.

PERSONAL AUTHOR: DUMAS, ROLAND A.; AND OTHERS

DESCRIPTOR: *MANAGEMENT; *QUALITY CONTROL; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 3#-33P.

ABSTRACT: PROVIDED ARE SUGGESTIONS FROM RECENT RESEARCH FOR MAKING QUALITY CONTROL THEORIES WORK.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N2

IRIS ACCESSION NUMBER: EW#144#7

PUBLICATION DATE: FEB 87

TITLE: PERFORMANCE APPRAISAL INTERVIEWING FOR TANGIBLE RESULTS.

PERSONAL AUTHOR: MALINAUSKAS, BARBARBA K.; CLEMENT, RONALD W.

DESCRIPTOR: *INTERVIEWING TECHNIQUES; *PERFORMANCE APPRAISAL; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 74-79P.

ABSTRACT: PROVIDED ARE SOME SUGGESTIONS FOR MANAGERS FOR HOW TO IMPROVE EMPLOYEE PERFORMANCE THROUGH THEIR OWN INTERVIEWING TECHNIQUES.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N2

IRIS ACCESSION NUMBER: EW#144#9

PUBLICATION DATE: SEP 85

TITLE: GUIDANCE MANUAL FOR IMPLEMENTING TOTAL TOXIC ORGANICS (TTO) PRETREATMENT STANDARDS.

DESCRIPTOR: *MONITORING; *MANAGEMENT; *INDUSTRIAL WASTES; *GUIDANCE MANUALS; *REPORTING; *ORGANICS; *PRETREATMENT; *TOTAL ORGANICS; *STANDARDS; *USEPA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 86P. PRICE: $6.16

ABSTRACT: THIS MANUAL WILL BE USEFUL TO BOTH PUBLICLY OWNED

TREATMENT WORKS AND THEIR INDIRECT DISCHARGERS/INDUSTRIAL USERS. SECTIONS ARE INCLUDED ON THE FOLLOWING TOPICS: (1) INTRODUCTION, (2) REPORTING REQUIREMENTS, (3) INDUSTRIAL CATEGORIES WITH TTO REQUIREMENTS, (4) GUIDANCE FOR THE PREPARATION OF A TOXIC ORGANIC MANAGEMENT PLAN, (5) USE OF THE COMBINED WASTESTREAM FORMULA, (6) REMOVAL CREDITS, AND (7) TTO MONITORING GUIDANCE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#1441#

PUBLICATION DATE: SEP 85

TITLE: RCRA INFORMATION ON HAZARDOUS WASTES FOR PUBLICLY OWNED TREATMENT WORKS.

DESCRIPTOR: *COMPLIANCE; *HAZARDOUS WASTES; *HAZARDOUS WASTE GENERATORS; *HAZARDOUS WASTE TRANSPORTERS; *INDUSTRY; *PRETREATMENT; *RCRA; *OPERATIONS (WASTEWATER); *TOXIC SUBSTANCES; *TOXIC WASTES; *REGULATIONS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 113P. PRICE: $7.78

ABSTRACT: THIS MANUAL PROVIDES GUIDANCE TO MUNICIPAL PERSONNEL IN UNDERSTANDING HAZARDOUS WASTE REQUIREMENTS OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) AND THE IMPLICATIONS OF THESE RCRA REQUIREMENTS FOR THE WASTEWATER TREATMENT OPERATIONS AND FOR LOCAL INDUSTRIES SERVED BY TREATMENT PLANTS. THE MANUAL FOCUSES ON (1) RCRA OBLIGATIONS FOR GENERATORS AND TRANSPORTERS OF HAZARDOUS WASTE, (2) POTW AUTHORITY TO REGULATE TOXIC WASTE DISCHARGERS UNDER THE GENERAL PRETREATMENT REGULATIONS, AND (3) RCRA REQUIREMENTS FOR POTWS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14411

PUBLICATION DATE: JUL 85

TITLE: GUIDANCE MANUAL FOR PREPARATION AND REVIEW OF REMOVAL CREDIT APPLICATIONS.

DESCRIPTOR: *CREDIT APPLICATIONS; *FUNDING; *GUIDANCE MANUALS; *FACILITIES; *PRETREATMENT; *STANDARDS; *USEPA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 115P. PRICE: $7.9#

ABSTRACT: THIS MANUAL IS INTENDED TO EXPLAIN THE FINAL REMOVAL CREDITS RULE AND PROVIDE DEMONSTRATIONS, SUGGESTIONS AND GUIDANCE FOR POTWS IN THE PREPARATIONS OF AN ACCEPTABLE REMOVAL CREDITS APPLICATION AS OF JULY, 1985. THE MANUAL ALSO PRESENTS GUIDANCE FOR THE APPROVAL AUTHORITY REVIEW OF A REMOVAL CREDITS APPLICATION TO ENSURE CONSISTENCY IN REVIEW AND APPROVAL OF APPLICATIONS, AND THE CONTINUED

OVERSIGHT OF REMOVAL CREDITS IMPLEMENTATION AFTER APPROVAL. THE MANUAL ALSO CONTAINS APPENDICES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14412

PUBLICATION DATE: SEP 85

TITLE: MUNICIPAL WASTEWATER SLUDGE COMBUSTION TECHNOLOGY. SEMINAR PUBLICATION.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *COMBUSTION SYSTEMS; *COSTS; *OPERATIONS (WASTEWATER); *SLUDGE; *SLUDGE COMBUSTION; *TECHNOLOGY; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 188P. PRICE: $12.28

ABSTRACT: THIS PUBLICATION CONTAINS MATERIAL PREPARED IN ASSOCIATION WITH THE U.S. ENVIRONMENTAL PROTECTION AGENCYS' INTERNATIONAL CONFERENCE ON THERMAL CONVERSION OF MUNICIPAL SLUDGE. THE CONFERENCE WAS HELD IN HARTFORD, CONNECTICUT, MARCH, 1983. THE PUBLICATION DESCRIBES AND EVALUATES VARIOUS MUNICIPAL SLUDGE COMBUSTION SYSTEMS. THE PUBLICATION SUPPLEMENTS BUT DOES NOT REPLACE USEPA TECHNOLOGY TRANSFER MANUALS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14414

PUBLICATION DATE: JUN 85

TITLE: SUCCESSFUL STATE COST REDUCTION PROCEDURES FOR MUNICIPAL WASTEWATER TREATMENT FACILITIES.

DESCRIPTOR: *COSTS; *COST REDUCTION; *CONSTRUCTION; *FACILITIES; *DESIGN; *PROGRAM DESCRIPTIONS; *STATE ROLE; *STATE PROGRAMS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 25P. PRICE: $2.5#

ABSTRACT: THE PURPOSE OF THE REPORT IS TO INFORM STATE AND REGIONAL CONSTRUCTION GRANTS PERSONNEL ABOUT SUCCESSFUL COST REDUCTION PROCEDURES USED BY STATES TO REDUCE MUNICIPAL WASTEWATER TREATMENT COSTS. A SURVEY OF STATES INDICATED THAT 17 STATES WERE IMPLEMENTING COST REDUCTION PROGRAMS AT THE TIME THIS REPORT WAS WRITTEN. THIS REPORT PROVIDES BACKGROUND INFORMATION ON THESE STATE PROGRAMS, AND DESCRIBES HOW A STATE CAN DEVELOP A COST REDUCTION PROGRAM. TWO ATTACHMENTS PROVIDE MORE DETAILED INFORMATION ON THE VARIOUS POINTS AT WHICH IN-PROGRESS DESIGN REVIEWS ARE CONDUCTED, AND THE SPECIFIC COST-REDUCING PROCEDURES USED BY INDIVIDUAL STATES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14415

PUBLICATION DATE: MAR 85

TITLE: OVERVIEW OF STATE GROUND-WATER PROGRAM SUMMARIES. VOLUME 1.

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *MONITORING; *STATE PROGRAMS; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 69P. PRICE: $5.14

ABSTRACT: THIS REPORT (VOLUME I OF TWO VOLUMES) PRESENTS INFORMATION USEPA COMPILED FROM AVAILABLE SOURCES ON THE BASIC ELEMENTS OF GROUNDWATER PROGRAMS AND ACTIVITIES IN THE 5# STATES AND SELECTED TERRITORIES. THIS IS NOT A COMPREHENSIVE SUMMARY OF ALL STATE GROUNDWATER PROGRAMS. SECTIONS ARE INCLUDED ON (1) GROUNDWATER USES AND CONTAMINATION AND (2) STATE ACTIVITIES AIMED AT PROTECTING GROUNDWATER.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14417

PUBLICATION DATE: NOV 86

TITLE: COST-EFFECTIVE OPERATION AND MAINTENANCE: SIX CITIES SAVE OVER ONE MILLION DOLLARS.

DESCRIPTOR: *COST REDUCTION; *COSTS; *MANAGEMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 15P. PRICE: $1.5#

ABSTRACT: THIS PUBLICATION PROVIDES COST-EFFECTIVE OPERATIONS AND MAINTENANCE IDEAS FOR WASTEWATER TREATMENT FROM SEVERAL CITIES. THE GOOD IDEAS SUGGESTED WERE PRIMARILY IN THREE CATEGORIES: (1) GOOD MANAGEMENT; (2) THRIFTY, SKILLFUL OPERATIONS; AND (3) EFFECTIVE MAINTENANCE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14418

PUBLICATION DATE: FEB 86

TITLE: COSTS OF AIR POLLUTION ABATEMENT SYSTEMS FOR SEWAGE SLUDGE INCINERATORS.

PERSONAL AUTHOR: ANNAMRAJU, GOPAL; AND OTHERS

DESCRIPTOR: *AIR POLLUTION CONTROL; *COSTS; *EQUIPMENT; *INCINERATORS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SLUDGE DISPOSAL; *SLUDGE INCINERATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 65P. PRICE: $4.9#

ABSTRACT: CAPITAL AND ANNUAL COSTS WERE CALCULATED FOR APPLYING SIX DIFFERENT AIR POLLUTION CONTROL SYSTEMS TO MUNICIPAL SEWAGE SLUDGE INCINERATORS THAT WERE USING MULTIPLE-HEARTH FURNACES. THE SYSTEMS INVOLVED THREE PRINCIPAL TYPES OF AIR POLLUTION EQUIPMENT--WET SCRUBBERS, FABRIC FILTERS, AND ELECTROSTATIC PRECIPITATORS--APPLIED TO THREE DIFFERENT PLANT SIZES (PLANTS INCINERATING 36, 72, AND 3## TONS OF DRY SLUDGE PER DAY IN ONE, TWO, AND EIGHT MULTIPLE-HEARTH FURNACES, RESPECTIVELY). THE SIX OPTIONS WERE: (1) VENTURI/TRAY SCRUBBER WITH A 4#-INCH PRESSURE DROP. (2) FABRIC FILTER SYSTEM OPERATING AT 5## DEGREES FARENHEIT AND EQUIPPED WITH AN UPSTREAM TEMPERATURE CONTROL. (3)FABRIC FILTER SYSTEM OPERATING AT 5## DEGREES FARENHEIT AND EQUIPPED WITH A HEAT EXCHANGER AND A SCRUBBER FOR SULFUR DIOXIDE REDUCTION. (4) ELECTROSTATIC PRECIPITATOR (ESP) WITH UPSTREAM LIMITED TEMPERATURE AND HUMIDITY CONTROL. (5) SAME AS OPTION (4) BUT WITH AN ADDITIONAL DOWNSTREAM WET SCRUBBER FOR SULFUR DIOXIDE REDUCTION. (6) ESP WITH UPSTREAM TEMPERATURE CONTROL AND A SULFUR DIOXIDE SCRUBBER. TECHNICAL FEASIBILITY STUDIES INDICATED THAT ALL THREE TYPES OF CONTROLS COULD ACHIEVE A TOTAL PARTICULATE REMOVAL EFFICIENCY OF 99 PERCENT. THE VENTURI/TRAY SCRUBBER OPTION ENTAILED THE LOWEST CAPITAL COST, BUT ANNUAL COSTS WERE HIGH BECAUSE OF THE HIGH PRESSURE DROPS AND INCREASED ENERGY USE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14419

PUBLICATION DATE: FEB 86

TITLE: PILOT PLANT DEMONSTRATION OF THE HYPERBARIC OXYOZOSYNTHESIS PROCESS.

DESCRIPTOR: *FACILITIES; *HYPERBARIC OXYOZOSYNTHESIS PROCESS; *PILOT PLANTS; *OPERATIONS (WASTEWATER); *OXYOZOSYNTHESIS PROCESS; *SLUDGE; *SLUDGE CONDITIONING; *SLUDGE STABILIZATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 84P. PRICE: $6.#4

ABSTRACT: A 3-MONTH FIELD DEMONSTRATION STUDY WAS CONDUCTED ON THE HYPERBARIC OXYOZOSYNTHESIS PROCESS FOR SLUDGE CONDITIONING AND STABILIZATION AT THE MONROE, MICHIGAN METROPOLITAN AREA WASTEWATER TREATMENT FACILITY. THE PROCESS INVOLVES CONTACTING SLUDGES, UNDER PRESSURE, AND AT REDUCED PH OF 3 TO 4, WITH OXYGEN AND OZONE FOR PERIODS OF UP TO THREE HOURS. THE PRIMARY OBJECTIVE OF THIS STUDY WAS TO EVALUATE THE PROCESS WITH RESPECT TO ITS EFFECT ON SLUDGE DEWATERABILITY, AS MEASURED BY THE BUCHNER FUNNEL SPECIFIC RESISTIVITY TEST. THE PROCESS HAD BEEN DEMONSTRATED PREVIOUSLY FOR SLUDGE STABILIZATION MEASURED BY BACTERIA DESTRUCTION. THE PRESENT STUDY CONFIRMED THAT ADVANTAGE, AND ALSO THE ABILITY TO REDUCE ODORS. THE FINDINGS OF THE PRESENT STUDY INDICATE THAT THE OXYOZOSYNTHESIS PROCESS DID NOT IMPROVE SLUDGE DEWATERABILITY, BUT ACTUALLY DECREASED DEWATERING CHARACTERISTICS SOMEWHAT. ALSO, THE OXYOZOSYNTHESIS PROCESS DID NOT ACHIEVE ANY SIGNIFICANT REDUCTION OF SLUDGE VOLATILE SOLIDS OR TOTAL CHEMICAL OXYGEN

DEMAND. COMMENTS RECEIVED AFTER COMPLETION OF THE PROJECT FROM OZONICS CORPORATION, WHO PRESENTLY HAS LICENSE RIGHTS TO THE PROCESS, ARE INCLUDED IN THE APPENDIX TO THE REPORT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#1442#

PUBLICATION DATE: FEB 87

TITLE: FACTORS AFFECTING BIOAVAILABILITY OF CADMIUM.

PERSONAL AUTHOR: COREY, R. B.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *CADMIUM; *ANALYTICAL TECHNIQUES; *METALS; *PLANTS; *SEWAGE SLUDGE; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 321P. PRICE: $2#.26

ABSTRACT: A PROJECT WAS UNDERTAKEN TO EXAMINE REACTIONS OF METALS WITH SOILS AND SOLUBLE ORGANICS AND TO CHARACTERIZE PLANT UPTAKE BY CADMIUM (CD). THE PROJECT ADDRESSED THREE COMPONENTS OF THE SEWAGE SLUDGE-SOIL-PLANT SYSTEM RELATED TO THE BIOAVAILABILITY OF CD. THESE WERE THE MECHANISMS CONTROLLING CD ACTIVITY IN SLUDGE-AMENDED SOIL, THE ROLE OF SOLUBLE ORGANICS IN MAINTAINING HIGH SOLUTION LEVELS OF CD, AND FACTORS AFFECTING PLANT UPTAKE OF CD AT LOW, SUSTAINED LEVELS OF FREE CD IONS IN SOLUTION. THIS INFORMATION IS NECESSARY IF PLANT UPTAKE OF CD IS TO BE SIMULATED SUCCESSFULLY WITH A SOLUTE TRANSPORT MODEL. A LARGE PART OF THE RESEARCH INVOLVED METHODS DEVELOPMENT. ANALYTICAL PROCEDURES WERE DEVELOPED AND CHECKED FOR METAL ANALYSES OF PLANT TISSUE AND SOIL EXTRACTS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY AND GRAPHITE FURNACE ATOMIC ABSORPTION. THESE PROCEDURES WERE USED TO DEVELOP METHODS FOR DETERMINING SPECIATION OF CD AND OTHER METALS IN SOIL SOLUTIONS AND IN SOIL SUSPENSIONS. THE METHODS WERE THEN USED TO STUDY THE EFFECTS OF ENVIRONMENTAL VARIABLES ON METAL SPECIATION. A RESIN-CONTROLLED, HYDROPONIC SYSTEM DEVELOPED TO CONTROL METAL ACTIVITIES AT LOW LEVELS SHOWED CD AND ZN COMPETITION FOR PLANT UPTAKE AND DEPENDENCE OF UPTAKE RATE ON THE FREE ION ACTIVITY IN SOLUTION.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14423

PUBLICATION DATE: SEP 86

TITLE: REDUCING SOIL EROSION: OFFSITE BENEFITS.

PERSONAL AUTHOR: RIBAUDO, MARC O.

DESCRIPTOR: *CONSERVATION; *EROSION; *SOILS; *SOIL CONSERVATION; *SOIL EROSION; *OFFSITE BENEFITS; *OFFSITE DAMAGES; *POINT SOURCE POLLUTION; *NONPOINT SOURCE POLLUTION; *WATER POLLUTION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 29P. MICROFICHE COPIES $5.95 EACH

ABSTRACT: SOIL EROSION IS ESTIMATED TO CAUSE OVER $7 BILLION IN DAMAGES WHICH OCCUR OFF THE FARM (OFFSITE) EACH YEAR TO WATER-BASED RECREATION, NAVIGATION, WATER STORAGE FACILITIES, MUNICIPAL AND INDUSTRIAL WATER USERS, WATER CONVEYANCE SYSTEMS, AND FROM INCREASED FLOODING. SOIL CONSERVATION PROGRAMS WHICH REDUCE EROSION ALSO REDUCE THESE OFFSITE DAMAGES. THIS REPORT IS THE FIRST KNOWN ATTEMPT AT ESTIMATING THE NATIONAL OFFSITE BENEFITS FROM SOIL CONSERVATION. THIS REPORT EXAMINES THE OFFSITE DAMAGES FROM EROSION AT THE NATIONAL AND REGIONAL LEVELS, ESTABLISHES A RELATIONSHIP BETWEEN WATER-INDUCED EROSION AND DAMAGES, AND ASSESSES THE OFFSITE BENEFITS FROM REDUCED SOIL EROSION.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402

IRIS ACCESSION NUMBER: EW014424

PUBLICATION DATE: SEP 86

TITLE: COMPLIANCE WITH PROFESSIONAL STANDARDS BY THE EPA INSPECTOR GENERAL.

DESCRIPTOR: *GENERAL ACCOUNTING OFFICE; *INTERNAL AUDITS; *QUALITY ASSESSMENT REVIEWS; *OFFICE OF INSPECTOR GENERAL; *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *USEPA

DESCRIPTIVE NOTE: 77P. FIRST 5 COPIES FREE, ADDITIONAL COPIES $2.00

ABSTRACT: THE EPA OFFICE OF INSPECTOR GENERAL (OIG) SATISFACTORILY COMPLIED WITH 20 OF THE 23 AUDIT AND INVESTIGATION STANDARDS GAO USED IN ASSESSING THE OIG'S OPERATIONS. RECOMMENDATIONS FOR IMPROVING COMPLIANCE WITH CERTAIN ASPECTS OF THREE STANDARDS ARE INCLUDED.

AVAILABILITY: U.S. GENERAL ACCOUNTING OFFICE, POST OFFICE BOX 6015, GAITHERSBURG, MARYLAND 20877

IRIS ACCESSION NUMBER: EW014425

PUBLICATION DATE: SEP 86

TITLE: THE ECOLOGY OF LAKE ST. CLAIR WETLANDS: A COMMUNITY PROFILE.

PERSONAL AUTHOR: HERDENDORF, CHARLES E.; AND OTHERS

DESCRIPTOR: *BIOLOGY; *ECOLOGY; *LAKE ST. CLAIR; *ENVIRONMENT; ENVIRONMENTAL IMPACT; *RESEARCH REPORTS; WATER QUALITY; *WETLANDS

DESCRIPTIVE NOTE: 205P.

ABSTRACT: THIS REPORT ON LAKE ST. CLAIR WETLANDS IS ONE OF A SERIES OF COMMUNITY PROFILES THAT DEAL WITH MARINE AND FRESHWATER HABITATS OF ECOLOGICAL IMPORTANCE. THE INFORMATION IN THIS REPORT IS INTENDED TO PROVIDE A BASIC

UNDERSTANDING OF THE ECOLOGICAL RELATIONSHIPS WITHIN THE LAKE ST. CLAIR WETLANDS AND THE IMPACT OF NATURAL AND MAN-INDUCED DISTURBANCES ON THE COASTAL MARSH COMMUNITY. REFERENCES ARE PROVIDED AND AN APPENDIX LISTS THE DIMENSIONS AND OWNERSHIP OF THE MAJOR MARSHES AND THE IMPORTANT BIOLOGICAL SPECIES OF ALGAE, MACROPHYTES, INVERTEBRATES, FISH, AMPHIBIANS, REPTILES, BIRDS, AND MAMMALS OCCURING IN THE COASTAL MARSHES.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402

IRIS ACCESSION NUMBER: EW014426

PUBLICATION DATE: JUN 86

TITLE: REPORT TO EPA: MUNICIPAL COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM.

DESCRIPTOR: *CLEAN WATER ACT; *COMPLIANCE; *FEDERAL ROLE; *STATE ROLE; *LOCAL ROLE; *RECOMMENDATIONS; *MUNICIPAL COMPLIANCE; *NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM; USEPA; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 47P.

ABSTRACT: THIS REPORT ENCOMPASSES A NUMBER OF SUBJECT SECTIONS THAT LEAD TO A SERIES OF RECOMMENDATIONS TO BE CONSIDERED FOR IMPROVED COMPLIANCE. DESCRIBED ARE THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE STATUS OF MUNICIPAL COMPLIANCE. RECOMMENDATIONS FOR IMPROVING COMPLIANCE ARE INCLUDED.

AVAILABILITY: EPA CONSTRUCTION GRANTS PROGRAM, OFFICE OF MUNICIPAL POLLUTION CONTROL, WASHINGTON, D.C. 20208

IRIS ACCESSION NUMBER: EW014427

PUBLICATION DATE: 86

TITLE: AN INTRODUCTION TO SEWAGE TREATMENT.

DESCRIPTOR: *PRELIMINARY TREATMENT; *PRIMARY TREATMENT; *OPERATIONS (WASTEWATER); *SECONDARY TREATMENT; *TERTIARY TREATMENT; *WASTEWATER TREATMENT; *WASTE DISPOSAL; *UNITED KINGDOM; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 51P. PRICE: $6.00 NON-MEMBERS, $4.00 IWPC MEMBERS.

ABSTRACT: FIRST PUBLISHED IN 1960 THIS BOOK WAS REVISED FOR A SECOND EDITION IN 1968 AND HAS BEEN COMPLETELY REVISED FOR THIS THIRD EDITION. THE BOOK OUTLINES THE REASONS FOR SEWAGE TREATMENT AND THE MAIN PROCESSES. THE PROCESSES INCLUDE PRELIMINARY AND PRIMARY TREATMENT; SECONDARY TREATMENT BY BIOLOGICAL FILTRATION AND THE ACTIVATED SLUDGE PROCESS; TERTIARY TREATMENT; SLUDGE TREATMENT AND DISPOSAL; AND UTILISATION OF THE PRODUCTS OF SEWAGE TREATMENT. THE FINAL SECTION SUMMARISES THE ADMINISTRATION OF SEWAGE TREATMENT IN THE UNITED KINGDOM.

AVAILABILITY: INSTITUTE OF WATER POLLUTION CONTROL, 53 LONDON ROAD, MAIDSTONE, KENT ME16 8JH

IRIS ACCESSION NUMBER: EW#14434

PUBLICATION DATE: SEP 86

TITLE: THE NATION'S WATER: KEY UNANSWERED QUESTIONS ABOUT THE QUALITY OF RIVERS AND STREAMS.

DESCRIPTOR: *CONSTRUCTION GRANTS PROGRAM; *POLICIES; USGAO; USEPA; *RESEARCH REVIEWS; *TRENDS; *WATER QUALITY; *WATER POLLUTION CONTROL; *POLLUTION SOURCES; *RECOMMENDATION; *WASTEWATER TREATMENT; *RESEARCH METHODOLOGY

DESCRIPTIVE NOTE: 165P. FIRST FIVE COPIES FREE AS LONG AS SUPPLIES LAST, ADDITIONAL COPIES $2.##

ABSTRACT: TO ASSIST THE CONGRESS AND THE ADMINISTRATION IN DECIDING THE FUTURE OF THE NATIONAL WATER-QUALITY PROGRAM, GAO CONDUCTED AN INFORMATION SYNTHESIS OF FIVE RECENT STUDIES AND ASSESSED THE TECHNICAL STRENGTH OF THE METHODOLOGIES THEY USED TO REACH THEIR CONCLUSIONS. GAO REPORTS ON THE GAPS IN CURRENT KNOWLEDGE ABOUT THE NATION'S WATER QUALITY. IN EXAMINING THE FIVE STUDIES, GAO PURSUED ANSWERS TO FOUR QUESTIONS: (1) WHAT IS THE PRESENT CONDITION OF THE NATION'S WATER QUALITY?; (2) HOW HAS THE NATION'S WATER QUALITY CHANGED OVER TIME?; (3) WHAT POLLUTION SOURCES DEGRADE WATER QUALITY?; AND (4) WHAT HAS BEEN THE EFFECT OF THE CONSTRUCTION GRANTS PROGRAM ON WATER QUALITY? GAO DID NOT DRAW DEFINITIVE GENERALIZABLE CONCLUSIONS ON ANY OF THE FOUR QUESTIONS AND CONCLUDED THAT LITTLE CONCLUSIVE INFORMATION IS AVAILABLE TO THE CONGRESS TO USE IN POLICY DEBATES ON THE NATION'S WATER QUALITY.

AVAILABILITY: U.S. GENERAL ACCOUNTING OFFICE, PO BOX 6#15, GAITHERSBURG, MARYLAND 2#877

IRIS ACCESSION NUMBER: EW#14437

PUBLICATION DATE: 86

TITLE: A MANUAL FOR TRAINING RECLAMATION INSPECTORS IN THE FUNDAMENTALS OF HYDROLOGY.

PERSONAL AUTHOR: CURTIS, WILLIE R.; AND OTHERS

DESCRIPTOR: *DRAINAGE; *EROSION; *HYDROLOGY; *MONITORING; *POSTSECONDARY EDUCATION; *RECLAMATION; *TRAINING MANUALS; *SAMPLING; *INSPECTION; *SURFACE MINING; *WATER QUALITY; *WATER POLLUTION CONTROL; *MINING

DESCRIPTIVE NOTE: 62P. PRICE: $6.##

ABSTRACT: THIS HANDBOOK IS INTENDED TO BE A DESK REFERENCE TO HELP NONHYDROLOGISTS ACHIEVE A BASIC UNDERSTANDING OF HYDROLOGY AS IT RELATES TO SURFACE MINING AND RECLAMATION. THE HANDBOOK DESCRIBES CLUES AND INDICATIONS OF POTENTIAL PROBLEMS, SUGGESTS WAYS TO PREVENT OR MITIGATE THEM, AND DISCUSSES VARIOUS OBSERVATION AND SAMPLING TECHNIQUES.

AVAILABILITY: SOIL CONSERVATION SOCIETY OF AMERICA, 7515 NE ANKENY ROAD, ANKENY, IOWA 5##21-9764

IRIS ACCESSION NUMBER: EW#14439

PUBLICATION DATE: 86

TITLE: THE SELF-HELP HANDBOOK.

PERSONAL AUTHOR: SCHAUTZ, JANE W.

DESCRIPTOR: *COST REDUCTION; COSTS; CONSTRUCTION; *FACILITIES; *GUIDELINES; EQUIPMENT; MANAGEMENT; PLANNING; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *LOCAL ROLE; SMALL COMMUNITIES; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 199P.

ABSTRACT: THIS HANDBOOK IS AN INTEGRAL PART OF A NEW PROGRAM IN NEW YORK SPONSORED BY THE DEPARTMENTS OF STATE, ENVIRONMENTAL CONSERVATION, AND HEALTH. IT FOCUSES ON IMPROVING OR CREATING WATER AND WASTEWATER SYSTEMS IN SMALL LOCALITIES AND REDUCING CONSTRUCTION OR RECONSTRUCTION COSTS TO AFFORDABLE LEVELS. SELF-HELP IS BASED ON THE PRINCIPLE THAT EACH LOCALITY MUST OPTIMIZE ITS OWN RESOURCES AND MOTIVATE ITS PEOPLE TO RECOGNIZE THE PROBLEM AND PROVIDE A SOLUTION. THE BOOK CAN GIVE INSIGHTS TO THOSE INVOLVED IN LOCAL WASTEWATER TREATMENT DILEMMAS AND OFFER GUIDELINES FOR DEALING WITH THOSE PROBLEMS.

AVAILABILITY: THE RENSSELEARVILLE INSTITUTE, RENSSELEARVILLE, NY 12147

IRIS ACCESSION NUMBER: EW#14444

PUBLICATION DATE: 86

TITLE: PROCEEDINGS OF THE THIRD ANNUAL EASTERN GROUNDWATER CONFERENCE.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *CONTAMINATION; *GROUNDWATER; *MANAGEMENT; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 681P. PRICE: $35.## NWA MEMBERS, $43.75 NON-MEMBERS

ABSTRACT: THE CONFERENCE COVERED MANY TOPICS INCLUDING: LOCAL, STATE, AND FEDERAL GROUNDWATER MANAGEMENT STRATEGIES, PESTICIDE CONTAMINATION OF GROUNDWATER, GROUNDWATER DEVELOPMENT, AND RADON IN WELLS. IN ALL, 42 PAPERS WERE PRESENTED AT THE CONFERENCE WHICH WAS CO-SPONSORED BY THE NATIONAL WATER WELL ASSOCIATION, THE MAINE GEOLOGICAL SURVEY, THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION.

AVAILABILITY: NATIONAL WATER WELL ASSOCIATION, 6375 RIVERSIDE DR., DUBLIN, OH 43#17

IRIS ACCESSION NUMBER: EW#14441
PUBLICATION DATE: 86

TITLE: SMALL WATER SYSTEM TREATMENT COSTS.

PERSONAL AUTHOR: GUMERMAN, ROBERT C.; AND OTHERS

DESCRIPTOR: *COSTS; *DRINKING WATER; *CONSTRUCTION; *MAINTENANCE; *MANAGEMENT; *OPERATIONS (WATER); *SMALL COMMUNITIES; *UNIT PROCESSES; *WATER TREATMENT

DESCRIPTIVE NOTE: 17P. PRICE: $48.##

ABSTRACT: COST DATA FOR UNIT PROCESSES CAPABLE OF REMOVING CONTAMINANTS, INCLUDED IN THE NATIONAL PRIMARY DRINKING WATER REGULATIONS, FROM SMALL WATER SYSTEMS--SYSTEMS WITH A DAILY FLOW OF LESS THAN 1 MGD ARE PRESENTED IN THIS BOOK. CONSTRUCTION AND OPERATION AND MAINTENANCE COST DATA ARE PRESENTED FOR 45 CENTRALIZED TREATMENT UNIT PROCESSES CONSIDERED TO BE ESPECIALLY APPLICABLE TO CONTAMINANT REMOVAL OR TO THE TREATMENT AND DISPOSAL OF SLUDGE OR BRINES PRODUCED BY THE TREATMENT PROCESSES. IN ADDITION FIVE POINT-OF-USE TREATMENT TECHNIQUES, AND THEIR COST DATA, ARE ALSO COVERED.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVE., PARK RIDGE, NJ #7656

IRIS ACCESSION NUMBER: EW#14442

PUBLICATION DATE: SEP 86

TITLE: WATER POLLUTION BY FERTILIZERS AND PESTICIDES.

DESCRIPTOR: *AGRICULTURE; *ENVIRONMENT; *ANIMAL WASTES; *EUROPE; *FERTILIZERS; *MANAGEMENT; *PESTICIDES; *POLICIES; *OECD; *RESEARCH REPORTS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 144P. PRICE: $12.##

ABSTRACT: THIS REPORT REFLECTS THE GROWING CONCERN ON THE PART OF BOTH AGRICULTURAL AND ENVIRONMENTAL EXPERTS THAT FERTILIZERS, ANIMAL WASTES, AND PESTICIDES ARE CAUSING WATER POLLUTION THAT EXCEED ACCEPTABLE LEVELS IN OECD COUNTRIES. THE STUDY LOOKS AT THE CHARACTERISTICS OF THE POLLUTANTS, INCLUDING THEIR CYCLES AND PROCESSES, THE POTENTIAL CONSEQUENCES THEY POSE TO HEALTH, AND THEIR IMPACT ON THE WATER ENVIRONMENT. IT ALSO PROPOSES PREVENTIVE MEASURES AND REGULATION SCHEMES, RESEARCH NEEDS, CHANGES IN PRACTICE AND IMPROVED MANAGEMENT, AS WELL AS POLICY MEASURES ON THE PART OF MEMBER COUNTRIES TO REVERSE THIS TREND.

AVAILABILITY: OECD PUBLICATIONS AND INFORMATION CENTER, 1750 PENNSYLVANIA AVE., N.W., SUITE 1207, WASHINGTON, DC 20006-4582

IRIS ACCESSION NUMBER: EW#14444
PUBLICATION DATE: 86

TITLE: REVIEWS IN ENVIRONMENTAL TOXICOLOGY.

PERSONAL AUTHOR: HODGSON, E.

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *PUBLIC HEALTH; *RESEARCH REVIEWS; *TOXICOLOGY

DESCRIPTIVE NOTE: 354P. PRICE: $92.5#

ABSTRACT: THIS SECOND VOLUME IN THE SERIES CONTAINS REVIEWS ON TOPICS RANGING FROM THE EFFECTS OF METALS IN THE ENVIRONMENT TO THE TRICHOTHECENE MYCOTOXINS. THIS VOLUME RECOGNIZES THE NUMBER OF DISCIPLINES INCLUDED IN THE ENVIRONMENTAL TOXICOLOGY FIELD, AS WELL AS THE DIVERSITY AMONG PROFESSIONALS WORKING IN THE FIELD.

AVAILABILITY: ELSEVIER SCIENCE PUBLISHERS, BOX 211, 1### AE, AMESTERDAM, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW#14445

PUBLICATION DATE: 86

TITLE: ENVIRONMENTAL SOFTWARE GUIDE.

DESCRIPTOR: *COMPUTER SOFTWARE; *COMPLIANCE; *ENVIRONMENT; *GUIDES; *MANAGEMENT; *MODELING

DESCRIPTIVE NOTE: PRICE: $79.95 NONMEMBERS, FREE TO MEMBERS

ABSTRACT: THE GUIDE COVERS BOTH COMMERCIAL AND GOVERNMENT SOURCES OF SOFTWARE IN THE FIELDS OF DATA MANAGEMENT FOR COMPLIANCE, ATMOSPHERIC MODELLING, SOLID WASTE MANAGEMENT AND OTHER APPLICATIONS OF INTEREST TO ENVIRONMENTAL AND SAFETY ENGINEERS AND MANAGERS.

AVAILABILITY: CAE CONSUETANTS, INC., 41 TRAVERS AVE., YONKERS, NY 1#7#5

IRIS ACCESSION NUMBER: EW#14446

PUBLICATION DATE: 86

TITLE: METHODS FOR COLLECTION AND ANALYSIS OF WET DEPOSITION, CONTRACT REPORT NO. 331.

PERSONAL AUTHOR: PEDEN, MARK E.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ACID DEPOSITION; *LABORATORY PROCEDURES; *MONITORING; *SAMPLING; *QUALITY CONTROL

DESCRIPTIVE NOTE: 267P. PRICE: $25.##

ABSTRACT: THIS IS AN ANALYTICAL METHODS MANUAL FOR USE IN

ACID DEPOSITION STUDIES. DETAILED METHODS FOR DOCUMENTING THE MAJOR INORGANIC CONSTITUENTS IN WET DEPOSITION AS WELL AS GUIDELINES FOR THE COLLECTION, PRESERVATION, AND HANDLING OF SAMPLES ARE PRESENTED. REPRESENTATIVE PRECISION AND BIAS DATA ARE PROVIDED FOR EACH METHODOLOGY AS WELL AS RECOMMENDED QUALITY CONTROL PROTOCOLS TO ENSURE ACCURATE MEASUREMENTS.

AVAILABILITY: PRINCIPAL INVESTIGATOR, ILLINOIS STATE WATER SURVEY, 2204 GRIFFITH DRIVE, CHAMPAIGN, IL 61820

IRIS ACCESSION NUMBER: EW014447

TITLE: A PRIMER FOR COMPUTERIZED WASTEWATER APPLICATIONS.

DESCRIPTOR: *CASE HISTORIES; *COMPUTER APPLICATIONS; *MANAGEMENT; *MANUALS; *TECHNOLOGY; *OPERATIONS (WASTEWATER); *REFERENCE MATERIALS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $26.00 MEMBERS, $35.00 NONMEMBER

ABSTRACT: THIS MANUAL CAN SERVE AS A PRIMER TO THOSE WHO ARE INTERESTED IN LEARNING ABOUT COMPUTER APPLICATIONS IN WASTEWATER MREATMENT. THIS BOOK INCLUDES INFORMATION ON: (1) BUYING AND STARTING UP YOUR SYSTEM; (2) CASE HISTORIES FROM TREATMENT PLANTS; (3) GLOSSARY OF TERMS; AND (4) LIST OF SUGGESTED READINGS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 601 WYTHE ST., ALEXANDRIA, VA 22314-1994

IRIS ACCESSION NUMBER: EW014448

PUBLICATION DATE: 86

TITLE: WETLANDS.

PERSONAL AUTHOR: MITSCH, WILLIAM J.; GOSSELINK, JAMES G.

DESCRIPTOR: *CONSERVATION; *ECOLOGY; *ENVIRONMENT; *MANAGEMENT; *WETLANDS

DESCRIPTIVE NOTE: 539P. PRICE: $44.95

ABSTRACT: THIS VOLUME PRESENTS A DUAL PICTURE OF WETLAND ECOLOGY REVIEWING THEIR STRUCTURE AND FUNCTION ALONG WITH THEIR ECOLOGICAL CHARACTERISTICS AND SIGNIFICANCE; INCLUDING THE STRUCTURE, FUNCTION, AND MANAGEMENT OF THESE IMPORTANT PARTS OF THE LANDSCAPE. THE AUTHORS DISCUSS GENERAL CHARACTERISTICS OF WETLANDS, SUCH AS DEFINITION, HYDROLOGY, BIOGEOCHEMISTRY, WETLAND SUCCESSION, AND SPECIFIC CHARACTERIZATIONS OF INDIVIDUAL TYPES OF WETLAND ECOSYSTEMS. PARTICULAR EMPHASIS IS GIVEN TO WETLANDS IN THE U.S.

AVAILABILITY: VAN NOSTRAND REINHOLD, 115 FIFTH AVENUE, NEW YORK, NY 10003

IRIS ACCESSION NUMBER: EW014449

PUBLICATION DATE: 86

TITLE: COLD CLIMATE UTILITIES MANUAL.

PERSONAL AUTHOR: SMITH, DANIEL W.

DESCRIPTOR: *CLIMATE; *COLD TEMPERATURES; *MANAGEMENT; *MANUALS; *PLANNING; *UTILITIES; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *WASTEWATER COLLECTION; *WATER DISTRIBUTION; *WATER SUPPLY

DESCRIPTIVE NOTE: 888P. PRICE: $60.00

ABSTRACT: THIS MANUAL INCLUDES PLANNING AND PRELIMINARY CONSIDERATIONS FOR COLD CLIMATE UTILITIES, WATER SOURCE DEVELOPMENT, TREATMENT, STORAGE, AND DISPOSAL AND WASTEWATER COLLECTION, TREATMENT, AND DISPOSAL. TWELVE APPENDIXES ARE PROVIDED.

AVAILABILITY: CANADIAN SOCIETY FOR CIVIL ENGINEERING, 700-2050 MANSFIELD STREET, QUEBEC, CANADA H3A 1Z2

IRIS ACCESSION NUMBER: EW014450

TITLE: DIRECTORY OF CERTIFICATION AND TRAINING CONTACTS.

DESCRIPTOR: *ABC; *ASSOCIATION OF BOARDS OF CERTIFICATION; *CERTIFICATION; *DIRECTORIES; *INDUSTRIAL WASTES; *OPERATORS; SOLID WASTES; *TRAINING; *WATER; *WASTEWATER; *HAZARDOUS WASTES

DESCRIPTIVE NOTE: PRICE: $10.00

ABSTRACT: THE LATEST EDITION OF THIS DIRECTORY LISTS THE NAMES, ADDRESSES, AND PHONE NUMBERS FOR THE CERTIFICATION AND TRAINING CONTACT PERSONS FOR OVER 100 WATER, WASTEWATER, INDUSTRIAL WASTE, SOLID WASTE, AND HAZARDOUS WASTE CERTIFYING AUTHORITIES.

AVAILABILITY: ABC, PO BOX 786, AMES, IA 50010

IRIS ACCESSION NUMBER: EW014451

TITLE: MIDDLE EAST AND WORLD WATER DIRECTORY.

DESCRIPTOR: *AFRICA; *CONTRACTORS; *DIRECTORIES; *CONSULTANTS; *MANUFACTURERS; *MIDDLE EAST; *UTILITIES; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $110.00

ABSTRACT: THE 1986/1987 EDITION OF THIS TWO VOLUME SET IS AN IMPORTANT GUIDE TO LOCAL AND NATIONAL FIRMS SERVING THE WATER AND SEWAGE INDUSTRY OF THE MIDDLE EAST AND AFRICA, INCLUDING INTERNATIONAL MANUFACTURERS, EXPORTERS, CONSULTANTS, CONTRACTORS, AND OTHER FIRMS INVOLVED IN SELLING AND WORKING WITH THE WATER INDUSTRY OF THIS REGION. OVER 6,000 PURCHASERS OF WATER EQUIPMENT IN THE MIDDLE EAST

AND AFRICA ARE LISTED IN VOLUME I, WHILE VOLUME II PROVIDES INFORMATION ON THOSE COMPANIES THAT SELL WATER AND WASTEWATER EQUIPMENT, PIPES, VALVES, PUMPS, DESALINATION PLANTS, METERS, INSTRUMENTS, AND SO FORTH.

AVAILABILITY: MONA CHATILA, SERVICE DEPARTMENT, ARAB WATER WORLD, P.O. BOX 13 5121, BEIRUT, LEBANON

IRIS ACCESSION NUMBER: EW#14452

TITLE: LINERS AND LEACHATE.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *LEACHATE; *LINERS; *LANDFILLS; *MANAGEMENT; *SOLID WASTES; *TECHNOLOGY; *WASTE DISPOSAL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: $3#.## NONMEMBERS, $25.## GRCDA/NSWMA MEMBERS.

ABSTRACT: THIS CONFERENCE DEVOTED TWO DAYS TO PAPERS THAT ADDRESSED LINERS AND THE MANAGEMENT OF LEACHATE FROM MUNICIPAL SOLID WASTE DISPOSAL FACILITIES. THE PROCEEDINGS INCLUDE PAPERS ON LINER TECHNOLOGIES; THE FORMATION, COLLECTION, TREATMENT, AND MANAGEMENT OF LEACHATE; AND CLOSURE TECHNOLOGIES AND PRACTICES.

AVAILABILITY: GOVERNMENTAL REFUSE COLLECTION AND DISPOSAL ASSOCIATION; P.O. BOX 7219, SILVER SPRING, MD 2#91#

IRIS ACCESSION NUMBER: EW#14454

PUBLICATION DATE: 86

TITLE: CHLORINATED DIOXINS AND DIBENZOFURANS IN PERSPECTIVE.

PERSONAL AUTHOR: RAPPE, CHRISTOFFER; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICALS; *CHLORINATED DIOXINS; *DIOXINS; *CONFERENCE PROCEEDINGS; *CONTAMINATION; *DIBENZOFURANS; *PUBLIC HEALTH; *ENVIRONMENTAL IMPACT; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 57#P.

ABSTRACT: THIS BOOK PROVIDES DATA ON HUMAN EXPOSURE AND ANALYTIC TECHNIQUES DEVELOPED IN THE CONTINUING EFFORT AGAINST CONTAMINATION BY CHLORINATED DIOXINS AND DIBENZOFURANS. THE INFORMATION WAS COMPILED FROM PROCEEDINGS OF A SYMPOSIUM HELD AT THE 189TH NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW#14455

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT: REDUCING THE RISK.

PERSONAL AUTHOR: GODMAN, BENJAMIN A.; AND OTHERS

DESCRIPTOR: *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *FACILITIES; *MANAGEMENT; *TECHNOLOGY; *WASTE MANAGEMENT; *WASTE DISPOSAL; *WASTE TREATMENT

DESCRIPTIVE NOTE: 336P. PRICE: CLOTH-$64.95, PAPER-$34.95

ABSTRACT: IN THIS WORK, FACTS AND STRATEGIES NEEDED FOR SELECTING RESPONSIBLE HAZARDOUS WASTE MANAGEMENT ARE PROVIDED. GUIDELINES ARE GIVEN FOR COMPARING FACILITIES ON THE BASIS OF SITE, MANAGEMENT, AND TECHNOLOGY. TEN OF THE LARGEST COMMERCIAL HAZARDOUS WASTE MANAGEMENT FIRMS ARE EVALUATED AND RANKED.

AVAILABILITY: ISLAND PRESS, BOX 7, COVELO, CA 95428

IRIS ACCESSION NUMBER: EW#14456

PUBLICATION DATE: 86

TITLE: REMOVAL OF VOLATILE ORGANIC CHEMICALS FROM POTABLE WATER.

DESCRIPTOR: *CHEMICALS; *COSTS; *DRINKING WATER; *OPERATIONS (WATER); *ORGANIC CHEMICALS; *SAFE DRINKING WATER ACT; *TECHNOLOGY; *WATER TREATMENT; *VOLATILE ORGANIC CHEMICALS

DESCRIPTIVE NOTE: PRICE: $36.##

ABSTRACT: THIS VOLUME REVIEWS TECHNOLOGIES TO REMOVE VOLATILE ORGANIC CHEMICALS FROM POTABLE WATER AND PROVIDES COST ESTIMATES FOR THESE TECHNOLOGIES. THE INFORMATION IS INTENDED TO ASSIST IN IDENTIFYING THE BEST TREATMENT METHODS AVAILABLE AT A REASONABLE COST AND PURSUANT TO THE SAFE DRINKING WATER ACT.

AVAILABILITY: ENVIRONMENTAL SCIENCE AND ENGINEERING, INC., NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 87656

IRIS ACCESSION NUMBER: EW#14457

PUBLICATION DATE: 86

TITLE: THE ROLE OF THE OCEANS AS A WASTE DISPOSAL OPTION.

PERSONAL AUTHOR: KULLENBERG, G.

DESCRIPTOR: MANAGEMENT; *POLICIES; *ECOLOGY; ECONOMICS; LEGISLATION; *OCEANOGRAPHY; NATO; *RESEARCH; WASTE DISPOSAL

DESCRIPTIVE NOTE: 736P. PRICE: $117.##

ABSTRACT: THE PAPERS INCLUDED IN THIS VOLUME DEAL WITH ASPECTS OF MARINE SCIENCES, ENGINEERING, ECOLOGY, FRESHWATER RESEARCH, ECONOMY, LEGISLATION AND PUBLIC PERCEPTION. SEPARATE OVERVIEWS COVER EXAMPLES OF NEW WASTE DISPOSAL PROBLEMS AND THE OPTIONS AVAILABLE TO DEAL WITH THEM; THE PROBLEM OF DISCOVERING EFFECTS OF WASTE DISPOSAL OF VARIOUS KINDS IN ECOLOGICAL SYSTEMS CHARACTERIZED BY VERY DIFFERENT VARIANCE DISTRIBUTIONS AS A FUNCTION OF FREQUENCY; A SUITE OF MANAGEMENT OPTIONS AND POLICY-MAKING APPROACHES. A PRESENTATION OF THE DISTRIBUTION, PRODUCTION AND USE OF FRESHWATER, SEA WATER AND SOIL RESOURCES ILLUSTRATES THE POTENTIAL OF THE DEEP SEA AS AN OPTION FOR WASTE DISPOSAL. SEVERAL CONTRIBUTIONS DEAL WITH GENERIC QUESTIONS IN RELATION TO DISPOSAL OF SEWAGE, SEWAGE SLUDGE, ORGANIC MATTER AND NUTRIENTS, CONSIDERING COMPARISONS BETWEEN REGIONS ON A GLOBAL BASIS, AS WELL AS SOME PARTICULAR REGIONS IN DETAIL. DISPOSAL OF RADIOACTIVE WASTES IS ALSO EXPLORED, WITH APPRAISALS OF OPTIONS OF DISPOSAL AND COMPARISONS BETWEEN PROJECTED EFFECTS OVER VARIOUS TIME SCALES. VARIOUS TECHNIQUES FOR INVESTIGATING AND DEMONSTRATING BIOLOGICAL EFFECTS OF WASTE DISPOSAL ARE DISCUSSED, COVERING MAINLY THE MARINE ENVIRONMENT. IN ADDITION, CONTAINMENT VERSUS DISPERSION OF WASTE IS CONSIDERED AS A SEPARATE THEME.

AVAILABILITY: D. REIDEL PUBLISHING CO., 101 PHILIP DRIVE, NORWELL, MA 02061

IRIS ACCESSION NUMBER: EW014458

TITLE: SUBMERSIBLE PUMPING SYSTEMS: THE MODERN AND SAFE APPROACH.

DESCRIPTOR: *COSTS; *AUDIOVISUAL AIDS; *DESIGN; *EQUIPMENT; *PUMPS; 35MM SLIDES; *SUBMERSIBLE PUMPS; *MAINTENANCE; *SAFETY

DESCRIPTIVE NOTE: 73 COLOR SLIDES & TAPE, VIEWED FOR 2-WEEKS-NO CHARGE, PURCHASED-$100.00

ABSTRACT: INCLUDES 73 COLOR SLIDES AND A PROFESSIONALLY NARRATED TAPE WHICH DESCRIBES PUMP AND SYSTEM DESIGN, SAFETY AND SERVICE ADVANTAGES, CONSTRUCTION, MAINTENANCE AND COST COMPARISON INFORMATION.

AVAILABILITY: SUMBERSIBLE WASTEWATER PUMP ASSOCIATION, 600 FEDERAL STREET, CHICAGO, IL 60605

IRIS ACCESSION NUMBER: EW014459

TITLE: TOXICOLOGY HANDBOOK.

DESCRIPTOR: *ENVIRONMENT; *PUBLIC HEALTH; *HANDBOOKS; *RESEARCH REPORTS; *RESEARCH DESIGN; *RISK ASSESSMENT; *TOXICOLOGY

DESCRIPTIVE NOTE: 216P. SOFTCOVER, ALSO AVAILABLE ON MICROFILM

ABSTRACT: THIS HANDBOOK INCLUDES CHAPTERS ON: (1) EXTRAPOLATIONS OF TOXICOLOGICAL DATA FROM ANIMALS TO HUMANS; (2) THE FUNDAMENTAL CONCEPTS OF TOXICOLOGY; (3) DOSE-RESPONSE RELATIONSHIPS; (4) IMPORTANT PARAMETERS IN TOXICITY ASSESSMENTS; (5) PROTOCOLS USED IN TOXICOLOGICAL STUDIES; AND (6) EXPOSURE AND RISK ASSESSMENT.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., DEPT. TS, 966 HUNGERFORD DRIVE, #24, ROCKVILLE, MD 20850

IRIS ACCESSION NUMBER: EW014460

TITLE: VADOSE ZONE MODELING OF ORGANIC POLLUTANTS.

PERSONAL AUTHOR: HERN, S. C.; MELANCON, S. M.

DESCRIPTOR: *CHEMICALS; *CONTAMINATION; *GROUNDWATER; *MODELS; *ORGANIC POLLUTANTS; *CHEMICAL TRANSPORT; *VADOSE ZONE; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: $49.95

ABSTRACT: THIS BOOK IS ORGANIZED INTO TWO MAJOR SECTIONS: OVERVIEW OF CHEMICAL FATE AND TRANSPORT PROCESSES IN THE VADOZE ZONE, AND CHEMICAL PROCESSES, PARAMETER ESTIMATION AND VARIABILITY IN THE VADOSE ZONE. IT ALSO INCLUDES ONE APPENDIX.

AVAILABILITY: LEWIS PUBLISHERS INC., 121 S. MAIN ST., PO DRAWERD 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW014461

PUBLICATION DATE: 84

TITLE: WASTE.

PERSONAL AUTHOR: CORCORAN, LYNN

DESCRIPTOR: *AUDIOVISUAL AIDS; *HAZARDOUS WASTES; *INSTRUCTIONAL MATERIALS; RECYCLING; *WASTE DISPOSAL; *WASTE REDUCTION; SOLID WASTES; WASTEWATER TREATMENT; VIDEOTAPES

DESCRIPTIVE NOTE: VIDEO-29 MIN., PURCHASE $150.00, RENTAL $55.00

ABSTRACT: THIS VIDEO DOCUMENTARY EXAMINES THE MANY FACETS OF WASTE DISPOSAL. IT BEGINS AND ENDS WITH A LOOK AT THE ISSUES OF HAZARDOUS WASTES, CITED AS THE MOST COSTLY AND DIFFICULT TO SOLVE. TOPICS FEATURED ARE TOXIC WASTES, GARBAGE COLLECTION AND DISPOSAL, SEWAGE TREATMENT, DISPOSAL ALTERNATIVES SUCH AS SEPARATION AND RETURNABLE CONTAINER LAWS, "SPACE GARBAGE," AND NUCLEAR WASTE. IN EACH VIGNETTE THE ROLE OF OUR LIFE-STYLE IN CREATING THE ISSUE BECOMES EVIDENT. INTERVIEWS WITH KNOWLEDGABLE EXPERTS ADD AN IMPORTANT DIMENSION TO THE DOCUMENTARY.

AVAILABILITY: BULLFROG FILMS, OLEY, PA 19547

IRIS ACCESSION NUMBER: EW#14462

PUBLICATION DATE: 85

TITLE: 1985 NATIONAL WATER SUMMARY.

DESCRIPTOR: *STATE TRENDS; *NATURAL RESOURCES; *MANAGEMENT; *REPORTS; *TRENDS; *WATER RESOURCES; *WATER SUPPLY; *WATER USE; *STATUS REPORTS; *SURVEYS

DESCRIPTIVE NOTE: 5#6P. PRICE: $31.##

ABSTRACT: THIS REPORT FOCUSES ON SURFACE WATER RESOURCES AND INCLUDES A STATE-BY-STATE SUMMARY THAT IS ONE OF THE MOST COMPREHENSIVE ASSEMBLED ON THE OCCURRENCE, USE, AND MANAGEMENT OF THE NATION'S SURFACE-WATER RESOURCES. SEVERAL ARTICLES ON WATER ISSUES INCLUDE THE EFFECTS OF DAMS AND RESERVOIRS ON SURFACE-WATER HYDROLOGY; SNOW, ICE, CLIMATE AND THEIR CONTRIBUTIONS TO WATER SUPPLY; MANAGING WATER SUPPLIES TO INCREASE WATER AVAILABILITY; VOLUNTARY TRANSFERS OF WATER IN THE WEST; AND IMPROVED, REAL-TIME COMMUNICATION OF INFORMATION ON HYDROLOGICAL CONDITIONS. THE STATE-BY-STATE SUMMARIES, WHICH WERE PREPARED AS PART OF THE ONGOING COOPERATIVE PROGRAM OF THE U.S. GEOLOGICAL SURVEY WITH MORE THAN 9## STATE, FEDERAL, AND LOCAL AGENCIES, CONTAIN MULTI-COLOR MAPS THAT SHOW PRINCIPAL RIVER BASINS AND RESERVOIRS, GRAPHS ON VARIATIONS IN PRECIPITATION AND STREAMFLOWS, TABLES OF STREAMFLOW CHARACTERISTICS, SURFACE-WATER USES IN EACH STATE AND A SECTION DESCRIBING SURFACE-WATER MANAGEMENT.

AVAILABILITY: U.S. GEOGRAPHICAL SURVEY, BOOKS AND OPEN-FILE REPORTS, FEDERAL CENTER, BLDG. 41, BOX 25425, DENVER, CO 8#225

IRIS ACCESSION NUMBER: EW#14464

PUBLICATION DATE: 86

TITLE: TOXIC SUBSTANCES CONTROLS PRIMER, SECOND EDITION.

PERSONAL AUTHOR: WORBEC, MARY DEVINE

DESCRIPTOR: *CHEMICALS; *LEGISLATION; *MANAGEMENT; *POLLUTION CONTROL; *SAFETY; *PUBLIC HEALTH; *TOXIC SUBSTANCES; *HAZARDOUS WASTES

DESCRIPTIVE NOTE: 221P. PRICE: $2#.##

ABSTRACT: THIS PRIMER COMPILES AND EXPLAINS--IN NON-TECHNICAL LANGUAGE--THE PRINCIPAL HEALTH, SAFETY, AND ENVIRONMENTAL LAWS ON CHEMICAL MANAGEMENT. IT FOCUSES ON THE 1985 CHANGES IN THE RESOURCE CONSERVATION AND RECOVERY ACT, WHICH EXPANDED EPA JURISDICTION OVER HAZARDOUS WASTES, INCLUDED SMALL-QUANTITY WASTE PRODUCERS WITHIN ITS SCOPE, AND MANDATED CONTROL OF LEAKS FROM UNDERGROUND STORAGE TANKS. RECENT MODIFICATIONS TO THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT--THE "SUPERFUND" LAW--ARE OUTLINED, INCLUDING THE LATEST CONGRESSIONAL EFFORTS TO CREATE A RIGHT-TO-KNOW LAW FOR LOCAL COMMUNITIES.

AVAILABILITY: BNA BOOKS DISTRIBUTION CENTER, 3## RARITAN CENTER PARKWAY, CN 94, EDISON, NJ #8818

IRIS ACCESSION NUMBER: EW#14465

PUBLICATION DATE: 85

TITLE: WATER IN THE WEST: WESTERN WATER FLOWS TO THE CITIES.

PERSONAL AUTHOR: FOLK-WILLIAMS, JOHN A.; AND OTHERS

DESCRIPTOR: *ISSUES; *MANAGEMENT; *PLANNING; *NATURAL RESOURCES; *WATER SUPPLY; *SOUTHWEST (U.S.)

DESCRIPTIVE NOTE: 217P. PRICE: $25.##

ABSTRACT: THIS IS A COMPREHENSIVE AND CLEARLY ORGANIZED REFERENCE TOOL FOR UNDERSTANDING THE COMPLEX WATER ISSUES FACING THE SOUTHWEST. THE DEVELOPMENT OF STRONG COMPETITION FOR CONTROL OF WATER RESOURCES IS OUTLINED AND METHODS BEING USED TO MAKE DECISIONS ARE DESCRIBED. A FEW OF THE IMPORTANT ISSUES DISCUSSED ARE THE IMPACT OF URBAN RESOURCE NEEDS IN THE SOUTHWEST, DISPUTES CONCERNING THE OWENS VALLEY, MONO BASIN AND THE CITY OF LOS ANGELES, AND THE SALT RIVER CONTROVERSY IN CENTRAL ARIZONA. THIS BOOK IS THE THIRD IN A SERIES OF VOLUMES ABOUT WATER IN THE WEST.

AVAILABILITY: ISLAND PRESS, BOX 7, CORELO, CA 95428

IRIS ACCESSION NUMBER: EW#14466

PUBLICATION DATE: 86

TITLE: SCARCE WATER AND INSTITUTIONAL CHANGE.

PERSONAL AUTHOR: FREDRICK, KENNETH D.

DESCRIPTOR: *CASE STUDIES; NATURAL RESOURCES; *MANAGEMENT; *PLANNING; WATER QUALITY; *WATER SUPPLY; *WATER RESOURCES

DESCRIPTIVE NOTE: 2#7P. PRICE: $22.5#

ABSTRACT: THIS BOOK DETAILS FIVE COMPREHENSIVE CASE STUDIES BY WATER RESOURCE EXPERTS TO EXAMINE THE NATURE AND CAUSES OF LONG-TERM WATER SUPPLY PROBLEMS AND SUGGESTS CONCRETE SOLUTIONS. CONTENTS INCLUDE: COMPETITION BETWEEN IRRIGATION AND HYDROPOWER IN THE PACIFIC NORTHWEST; WATER SCARCITY AND GAINS FROM TRADE IN KERN COUNTY, CA.; COST OF WATER MANAGEMENT INSTITUTIONS; AND INNOVATIONS IN WATER MANAGEMENT.

AVAILABILITY: ISLAND PRESS, BOX 7, CORELO, CA 95428

IRIS ACCESSION NUMBER: EW#14469
TITLE: MUD.

DESCRIPTOR: *AUDIOVISUAL AIDS; *EROSION; *EROSION CONTROL; *FILMS; *SEDIMENTATION; *SOILS; *URBAN DEVELOPMENT; *SURFACE RUNOFF; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM COLOR FILM-23 MIN., PRICE: $225.##

ABSTRACT: THIS FILM PRESENTS INFORMATION ON THE FOLLOWING TOPICS: (1) EROSION AND HOW IT CAN BE PREVENTED; (2) SEDIMENTATION AND HOW IT CAN BE PREVENTED OR, IF NECESSARY, CORRECTED AFTERWARDS; (3) URBAN DEVELOPMENT AND HOW THE SENSITIVE AND SMART BUILDER AND DEVELOPER CAN TAKE ADVANTAGE OF KNOWN TECHNOLOGY; AND (4) STORM DRAINAGE AND HOW TO MINIMIZE ITS DESTRUCTIVE EFFECT IN URBAN AREAS.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VIRGINIA 22#41

IRIS ACCESSION NUMBER: EW#14470

TITLE: ONE, TWO, THREE...CLEAN.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ADVANCED WASTEWATER TREATMENT; *FACILITIES; *FILMS; *MARYLAND; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: FILM-12 1/2 MIN., PRICE: $2##.##

ABSTRACT: THIS FILM DESCRIBES THE PISCATAWAY TERTIARY TREATMENT PLANT THAT SERVES PRINCE GEORGE'S COUNTY, MARYLAND.

AVAILABILITY: STUART FINLEY, INCORPORATED, 3428 MANSFIELD ROAD, FALLS CHURCH, VIRGINIA 22#41

IRIS ACCESSION NUMBER: EW#14471

TITLE: THE 1ST POLLUTION.

DESCRIPTOR: *AUDIOVISUAL AIDS; ENVIRONMENT; *FILMS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *WATER TREATMENT; *WASTEWATER TREATMENT; *WATER RESOURCES; *WATER QUALITY; *WATER REUSE

DESCRIPTIVE NOTE: FILM-26 MIN. PRICE: $3##.##

ABSTRACT: THIS FILM PROVIDES A FIRST-HAND LOOK AT WATER POLLUTION PROBLEMS AND WHAT CAN BE DONE ABOUT THEM. THE FILM SHOWS WHAT IS BEING DONE AT VARIOUS SITES IN THE UNITED STATES AND LOOKS TO THE FUTURE REGARDING WHAT CAN BE DONE.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VIRGINIA 22#41

IRIS ACCESSION NUMBER: EW#14472
TITLE: INTRODUCTION TO WATER DISTRIBUTION. VOLUME 3.

DESCRIPTOR: *CONSTRUCTION; *EQUIPMENT; *FACILITIES; *MAINTENANCE; *MANAGEMENT; *OPERATIONS (WATER); *WATER DISTRIBUTION; *PLANNING; *WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: $27.5#

ABSTRACT: PLANNING, CONSTRUCTION, OPERATION, AND MAINTENANCE OF THE MAJOR COMPONENTS OF THE DISTRIBUTION SYSTEM ARE EXPLAINED IN THIS COMPREHENSIVE NEW VOLUME. DESCRIPTIONS AND MAINTENANCE PROCEDURES ARE DETAILED FOR: PIPES, VALVES, SERVICE LINES AND METERS, INSTRUMENTATION AND CONTROL EQUIPMENT, FIRE HYDRANTS, PUMPS AND PRIME MOVERS, STORAGE FACILITIES, TAPPING PROCEDURES, AND CROSS-CONNECTION CONTROL.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES, 6666 W. QUINCY AVE., DENVER, CO 8#235

IRIS ACCESSION NUMBER: EW#14473

PUBLICATION DATE: MAR 86

TITLE: MANAGEMENT OF HAZARDOUS WASTE TREATMENT/STORAGE/DISPOSAL FACILITIES.

PERSONAL AUTHOR: CASHMAN, JOHN R.

DESCRIPTOR: *EMERGENCY RESPONSE; *HAZARDOUS WASTES; *MANAGEMENT; *WASTE DISPOSAL; *WASTE STORAGE; *WASTE TREATMENT; *TECHNOLOGY; *TRAINING; *TRANSPORTATION

DESCRIPTIVE NOTE: 318P. PRICE: HARDCOVER $55.##

ABSTRACT: THE BOOK PROVIDES PRACTICAL INFORMATION RECENTLY OBTAINED FROM FIRST HAND ON-SITE INVESTIGATIONS OF MORE THAN 2# MAJOR U.S. TSD FACILITIES. REALISTIC GUIDANCE ON HOW TO DEAL WITH HAZARDOUS WASTES WITH TESTED TECHNOLOGY AND PROCEDURES ARE CONSIDERED. CHAPTERS COVER EVERY MAJOR METHOD OF HAZARDOUS WASTE TSD--LANDFILL, RECOVERY/REUSE, THERMAL DESTRUCTION, DEEP WELL INJECTION AND OTHERS. THERE IS ALSO A SPECIAL CHAPTER ON SOURCES OF FURTHER INFORMATION AND TRAINING.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 176#4

IRIS ACCESSION NUMBER: EW#14474

PUBLICATION DATE: 86

TITLE: ANALYTICAL CHEMISTRY OF PCBS.

PERSONAL AUTHOR: ERICKSON, MITCHELL D.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMISTRY; *ANALYTICAL CHEMISTRY; *LABORATORY PROCEDURES; *REFERENCE MATERIALS;

*PCBS

DESCRIPTIVE NOTE: 527P. PRICE: $39.95

ABSTRACT: THIS BOOK PROVIDES A THOROUGH REVIEW OF VARIOUS METHODS FOR PCB DETERMINATION IN MANY SUBSTRATES. THE FIRST CHAPTER PRESENTS A GENERAL INTRODUCTION TO PROPERTIES, PRODUCTION, COMPOSITION, IMPURITIES, TOXICOLOGY, BIOCONCENTRATION, AND FATE. SUBSEQUENT CHAPTERS PROVIDE A GOOD BLEND OF DETAILED METHODS AND GENERAL ANALYTICAL APPROACHES. METHODS SPONSORED BY SPECIFIC AGENCIES OR TESTING ORGANIZATIONS ARE REFERENCED. ADVICE AND TECHNIQUES FOR SAMPLE COLLECTION AND STORAGE ARE PRESENTED. EXTRACTION, CLEANUP, AND DETERMINATION TECHNIQUES AS WELL AS DATA REDUCTION ARE TREATED IN DEPTH IN INDIVIDUAL CHAPTERS. THE LAST CHAPTER, ON COLLABORATIVE STUDIES, PROVIDES A GOOD PERSPECTIVE ON HOW WELL VARIOUS METHODS HAVE PERFORMED AND WHAT INTERLABORATORY VARIATIONS CAN BE EXPECTED. THE BIBLIOGRAPHY CONTAINS 12Ø PAGES OF CITATIONS.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 8Ø MONTVALE AVE., STONEHAM, MASS Ø2128

IRIS ACCESSION NUMBER: EWØ14476

TITLE: INDOOR AIR QUALITY ENVIRONMENTAL INFORMATION HANDBOOK.

DESCRIPTOR: *AIR QUALITY; *HOMES; *INDOR AIR QUALITY; *POLLUTION CONTROL; *PUBLIC HEALTH; *REFERENCE MATERIALS; *RADON
DESCRIPTIVE NOTE: PRICE: $22.95, PLUS $3.ØØ SHIPPING AND HANDLING.

ABSTRACT: THIS PUBLICATION PROVIDES A COMPREHENSIVE REVIEW AND REFERENCE GUIDE ON THE SOURCES OF RADON AND ITS TRANSPORT MECHANISMS, REPORTED INDOOR CONCENTRATIONS, BUILDING AND METEROLOGICAL EFFECTS, MODELS FOR PREDICTING INDOOR CONCENTRATIONS, HEALTH EFFECTS AND STANDARDS, AND CONTROL TECHNOLOGIES. A SEPARATE SECTION IS ENTITLED RADON IN THE HOME: A PRIMER FOR HOMEOWNERS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EWØ14478

PUBLICATION DATE: 85

TITLE: COMPREHENSIVE EMERGENCY MANAGEMENT: EVACUATING THREATENED POPULATIONS. CONTEMPORARY STUDIES IN APPLIED BEHAVIORAL SCIENCE. VOL. 3

PERSONAL AUTHOR: PERRY, RONALD W.

DESCRIPTOR: *DISASTERS; *EMERGENCY MANAGEMENT; *MANAGEMENT; *PLANNING; *EMERGENCIES

DESCRIPTIVE NOTE: 219P. PRICE: $47.5Ø

ABSTRACT: THE BOOK'S EIGHT CHAPTERS COVER: AN INTRODUCTION TO COMPREHENSIVE EMERGENCY MANAGEMENT, THE GENERIC FUNCTIONS IN DISASTERS, EVACUATION BEHAVIOR EXHIBITED IN NATURAL AND MAN-MADE DISASTERS, THE STRUCTURE OF CITIZEN EMERGENCY DECISION-MAKING, SOCIAL PSYCHOLOGY IN EMERGENCY MANAGEMENT, THE CONTEXT AND PRACTICE OF EVACUATION PLANNING, ENHANCING CITIZEN COMPLIANCE WITH DISASTER WARNINGS, AND THE PROSPECTS FOR EVALUATION AND COMPREHENSIVE EMERGENCY MANAGEMENT.

AVAILABILITY: JAI PRESS INC., GREENWICH, CONN

IRIS ACCESSION NUMBER: EWØ14479

TITLE: THE HEALTH DETECTIVE'S HANDBOOK: A GUIDE TO THE INVESTIGATION OF ENVIRONMENTAL HEALTH HAZARDOUS BY NONPROFESSIONALS.

DESCRIPTOR: *ACCIDENT PREVENTION; *HAZARDOUS WASTES; HEALTH SURVEYS; *HEALTH HAZARDS; *PUBLIC HEALTH; *MANUALS; *PUBLIC PARTICIPATION; *SURVEYS; *WASTE DISPOSAL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: $27.5Ø HARDCOVER, $12.95 PAPER BACK.

ABSTRACT: THIS IS A GUIDE FOR CITIZEN GROUPS TO DESIGN THEIR OWN SCIENTIFICALLY VALID HEALTH SURVEY. WRITTEN FOR PEOPLE WITH NO SCIENTIFIC TRAINING, THE GUIDE SHOWS READERS HOW TO DETERMINE WHETHER A HEALTH PROBLEM EXISTS, ORGANIZE OTHERS, DESIGN A SCIENTIFICALLY VALID STUDY, DRAW CONCLUSIONS, AND OBTAIN FURTHER HELP FROM STATE AND FEDERAL AGENCIES.
AVAILABILITY: JOHNS HOPKINS UNIVERSITY PRESS, 7Ø1 W 4ØTH ST., STE 275, BALTIMORE, MD 21211

IRIS ACCESSION NUMBER: EWØ1448Ø

PUBLICATION DATE: 86

TITLE: ENFORCING POLLUTION CONTROL LAWS.

PERSONAL AUTHOR: RUSSELL, CLIFFORD S.; AND OTHERS

DESCRIPTOR: *COMPLIANCE; COSTS; *ENFORCEMENT; *MONITORING; LAWS; POLLUTION; *POLLUTION CONTROL; *POLICIES; FEDERAL ROLE; STATE ROLE

DESCRIPTIVE NOTE: 244P. PRICE: CLOTH $25.ØØ

ABSTRACT: A MULTITUDE OF LAWS DESIGNED TO CLEAN UP THE ENVIRONMENT WERE PASSED IN THE 197Ø'S. BUT BEYOND THE MERE PASSING OF LAWS LAY THE DIFFICULT TASKS OF IMPLEMENTING, MONITORING, AND ENFORCING THEM. ECONOMIC MODELS ARE USED TO SHOW THE EXTENT OF THE DIFFICULTIES INVOLVED IN MONITORING AND ENFORCING POLLUTION CONTROL LAWS ON A CONTINUOUS BASIS. THE AUTHORS CONTEND THAT IT IS TIME FOR A NEW APPROACH AND MAKE SEVERAL RECOMMENDATIONS FOR POLICY CHANGE. BECAUSE CURRENT MONITORING TECHNIQUES ARE COSTLY AND CUMBERSOME, RESEARCH ON MONITORING TECHNOLOGY SHOULD BE REDIRECTED TOWARD DEVELOPING EASY AND LESS EXPENSIVE METHODS OF

MEASURING POLLUTION DISCHARGES. MONITORING SHOULD BE MADE EASIER AND MORE EFFECTIVE BY AMENDING THE LAW TO ALLOW FOR WARRANTLESS VISITS TO POTENTIAL POLLUTERS AND FOR THE USE OF REMOTE MONITORING EQUIPMENT. MONITORING SHOULD BE MORE CLOSELY LINKED TO ENFORCEMENT BY TYING THE LIKELIHOOD OF A MONITORING VISIT TO THE SOURCE'S PAST RECORD OF VIOLATIONS.

AVAILABILITY: RESOURCES FOR THE FUTURE, BOOK MARKETING, 1616 P. STREET, N.W., WASHINGTON, D.C. 2##36

IRIS ACCESSION NUMBER: EW#14481

PUBLICATION DATE: 86

TITLE: EVALUATION OF PESTICIDES IN GROUND WATER.

PERSONAL AUTHOR: GARNER, WILLA Y.; AND OTHERS

DESCRIPTOR: *DEGRADATION; *GROUNDWATER; *SOILS; *PESTICIDES; *PUBLIC HEALTH; *TOXIC SUBSTANCES; *WATER QUALITY; *RISK ASSESSMENT; *WATER POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 568P. PRICE: US & CANADA $94.95, EXPORT $113.95

ABSTRACT: THIS BOOK EXPLORES VARIABLES THAT IMPINGE ON GROUND WATER CONTAMINATION FROM AGRICULTURALLY APPLIED PESTICIDES. CONSIDERED ARE DEGRADATION PARAMETERS, SOIL CHARACTERISTICS AFFECTING PESTICIDE MOVEMENT INTO GROUND WATER, REPRODUCTIVE AND DEVELOPMENTAL TOXICITY RISK ASSESSMENT, AND SAFETY EVALUATION OF PESTICIDES IN GROUND WATER.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY DISTRIBUTION OFFICE DEPT. 23, 1155 16TH ST., N.W., WASHINGTON, D.C. 2##36

IRIS ACCESSION NUMBER: EW#14482

PUBLICATION DATE: 82

TITLE: THE DISPOSAL DILEMMA.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *HAZARDOUS WASTES; *PUBLIC ATTITUDES; *PUBLIC HEALTH; *VIDEOCASSETTES; *WASTE DISPOSAL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: FILM OR VIDEOCASSETTE-26 MIN., AVAILABLE FREE OF CHARGE IN 16MM FILM 3/4 IN., OR 1/2 IN. VIDEOCASSETTE.

ABSTRACT: THIS FILM PROVIDES A GENERAL DESCRIPTION OF THE HAZARDOUS WASTE PROBLEM, AND INCLUDES A CANDID DISCUSSION OF THE ISSUES BY AN EPA OFFICIAL, INDUSTRY REPRESENTATIVES, ACADEMICIANS, AND ENVIRONMENTALISTS. THEIR DIALOG SHEDS SOME LIGHT ON THE ORIGINS OF HAZARDOUS WASTES, PUBLIC ATTITUDES TOWARD THIS CONTROVERSIAL TOPIC, AND POSSIBLE SOLUTIONS.

AVAILABILITY: GEORGIA DEPT. OF NATURAL RESOURCES, 27# WASHINGTON ST., S.W., ATLANTA, GA 3#334

IRIS ACCESSION NUMBER: EW#14484

TITLE: HAZARDOUS CHEMICALS FILMSTRIP SET.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICALS; *FILMSTRIPS; *HAZARDOUS MATERIALS; *INSTRUCTIONAL MATERIALS; *ENVIRONMENTAL PROBLEMS; *MANAGEMENT; *PUBLIC HEALTH; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 6 FILMSTRIPS & CASSETTES, PRICE: $199.##

ABSTRACT: THIS IS A SET OF SIX FILMSTRIPS ANS CASSETTES WHICH EMPHASIZES THIS MAJOR ENVIRONMENTAL PROBLEM FACING THE 8#'S AND 9#'S. DISCUSSED ARE KEPONES, PCB'S, LOVE CANAL, AND OTHER TOPICS.

AVAILABILITY: YAKER ENVIRONMENTAL SYSTEMS, INC., P.O. BOX 18, STANTON, NJ #8885

IRIS ACCESSION NUMBER: EW#14486

TITLE: MEASURING ENGINEERING PROPERTIES OF SOIL.

PERSONAL AUTHOR: WRAY, WARREN K.

DESCRIPTOR: *ENGINEERING; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *POSTSECONDARY EDUCATION; *SOILS; *SOIL PROPERTIES

DESCRIPTIVE NOTE: 276P. PRICE: $26.95

ABSTRACT: DESIGNED AS A STUDENT LABORATORY TEXT, THIS BOOK IS USEFUL AS A REFERENCE GUIDE FOR FIELD ENGINEERS. EACH OF THE LABORATORY PROCEDURES IS PRECEEDED BY A SHORT INTRODUCTION AND A DISCUSSION OF THE BACKGROUND AND USE OF THE METHOD. THE PROCEDURE DESCRIBES THE REQUIRED APPARATUS, REQUIRED MEASUREMENTS, CALCULATIONS, PRESENTATION OF RESULTS, A NUMERICAL EXAMPLE, REFERENCES, APPLICABLE TABLES, CHARTS, GRAPHS, PHOTOGRAPHS, AND SAMPLES OF THE DATA RECORD FORM.

AVAILABILITY: PRENTICE-HALL, INC., ENGLEWOOD CLIFFS, NEW JERSEY #7632

IRIS ACCESSION NUMBER: EW#14489

PUBLICATION DATE: 87

TITLE: 1986-1987 DIRECTORY OF THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES INC. (ACIL).

DESCRIPTOR: *AMERICAN COUNCIL OF INDEPENDENT LABORATORIES; *DIRECTORIES; *LABORATORIES; *TESTING LABORATORIES

DESCRIPTIVE NOTE: 324P. PRICE: $5.##

ABSTRACT: SERVICES PROVIDED BY THE NATION'S LEADING INDEPENDENT COMMERCIAL TESTING LABORATORIES ARE DESCRIBED IN THIS DOCUMENT. EACH LABORATORY HAS A PAGE LISTING ITS PERSONNEL AND EQUIPMENT. LABORATORY SERVICES ARE CROSS-

REFERENCED IN THE TWO-PART INDEX OF SERVICES: THE DISCIPLINE INDEX BY NINE MAJOR TECHNICAL DISCIPLINES AND HUNDREDS OF SUBDISCIPLINES; THE PRODUCT/SERVICES DISCIPLINES INDEX BY 16Ø MATERIAL AND SERVICE CATEGORIES AND MORE THAN 2ØØ SUBCATEGORIES. OTHER AIDS ARE ALPHABETICAL AND GEOGRAPHICAL LISTINGS OF LABORATORIES, THEIR BRANCHES AND DIVISIONS. INFORMATION ABOUT THE ACIL AND ITS CODE OF ETHICS IS ALSO PROVIDED IN THE DIRECTORY.

AVAILABILITY: ACIL, 1725 K. ST., N.W., SUITE 3Ø1, WASHINGTON, D.C. 2ØØØ6

IRIS ACCESSION NUMBER: EWØ14491

TITLE: SPILLS.

DESCRIPTOR: CHEMICALS; *CHEMICAL SPILLS; *COMPUTER SOFTWARE; COMPUTER APPLICATIONS; *GASEOUS EMISSIONS; ENVIRONMENT; MICROCOMPUTERS; *SIMULATIONS; *SPILLS; PUBLIC HEALTH; *CONTINGENCY PLANNING

DESCRIPTIVE NOTE: PRICE: $199Ø.ØØ, $5Ø.ØØ DEMO VERSION.

ABSTRACT: SPILLS MODELS THE DISPERSION OF VAPORS FROM A CHEMICAL SPILL AND GASEOUS EMISSIONS. SPILLS COVERS THE FOLLOWING SCENARIOS: (1) CONTINUOUS SPILLS SUCH AS LEAKS FROM TANK CARS, TANKS AND PIPELINES; (2) POOLS OF LIQUIDS, OR LIQUEFIED GASES, FORMED INSTANTANEOUSLY, AND (3) STACK EMISSIONS WITH EITHER STEADY OR VARYING EMISSION RATES. PC VERSION OF SPILLS WITH THE FOLLOWING IMPROVEMENTS: (1) FULL-SCREEN DATA ENTRY; (2) ANY CHEMICAL CAN BE MODELED; (3) ENHANCED GRAPHICS; AND (4) MAXIMUM CONCENTRATIONS CAN BE PLOTTED EASILY.

AVAILABILITY: TRINITY CONSULTANTS, INC., 1ØØ NORTH CENTRAL EXPRESSWAY, SUITE 6ØØ, RICHARDSON, TX 75Ø8Ø

IRIS ACCESSION NUMBER: EWØ14493

PUBLICATION DATE: 85

TITLE: CLARIFIER DESIGN.

DESCRIPTOR: *CLARIFIERS; *DESIGN; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1Ø3P. PRICE: $14.ØØ MEMBERS, $19.ØØ NON-MEMBERS.

ABSTRACT: THIS BOOK DETAILS THE BASIC DESIGN CONCEPTS AND CONSIDERATIONS ENGINEERS AND CONSULTANTS NEED IN ANALYZING AND COMPARING DIFFERENT CLARIFIER DESIGNS. THE CHARTS AND SUMMARIES MAKE THE DIFFERENT ASPECTS OF CLARIFIER DESIGN EASY TO APPLY. A LIST OF REFERENCE MATERIALS IS INCLUDED.

AVAILABILITY: WPCF, 6Ø1 WYTHE ST., ALEXANDRIA, VA 22314-1994

IRIS ACCESSION NUMBER: EWØ14494

TITLE: THE SKILLS TO MANAGE FOR THE WATER AND WASTEWATER PROFESSIONAL.(TAPE)

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PLANNING; *STAFF DEVELOPMENT; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: TAPE, PRICE: $89.ØØ

ABSTRACT: THIS IS A WORKSHOP ON TAPE DESIGNED TO ADDRESS THE PROBLEMS OF WATER AND WASTEWATER MANAGEMENT PERSONNEL. A VARIETY OF MANAGEMENT TECHNIQUES AND IDEAS ARE PRESENTED.

AVAILABILITY: PUBLIC ADMINISTRATION WORKSHOPS, P.O. BOX 8Ø3, KINGSBURG, CA 93631

IRIS ACCESSION NUMBER: EWØ14495

PUBLICATION DATE: 84

TITLE: THE SECOND INTERNATIONAL CONFERENCE ON GROUND WATER QUALITY RESEARCH PROCEEDINGS.

PERSONAL AUTHOR: DURHAM, NORMAN N.; REDELFS, ANN E.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *GROUNDWATER; *RESEARCH REPORTS; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 222P. PRICE: $4Ø.ØØ

ABSTRACT: THIS PUBLICATION CONTAINS 62 PAPERS, WHICH ARE DIVIDED INTO FIVE TOPICAL AREAS. THESE INCLUDE BIOLOGICAL TRANSFORMATION PROCESSES, SORPTION PROCESSES, NON-BIOLOGICAL TRANSFORMATION PROCESSES, TRANSPORT PROCESSES AND INVESTIGATIVE METHODOLOGY FOR PROCESS RESEARCH.

AVAILABILITY: UNIVERSITY CENTER FOR WATER RESEARCH, OKLAHOMA STATE UNIVERSITY, ØØ3 LIFE SCIENCES EAST, STILLWATER, OK 74Ø78

IRIS ACCESSION NUMBER: EWØ14496

TITLE: SOIL IMPROVEMENT BY PRELOADING.

PERSONAL AUTHOR: STAMATOPOULOS, ARIS C.; KOTZIAS, PANAGHIOTIS C.

DESCRIPTOR: *CASE STUDIES; *CONSTRUCTION; *PRELOADING; *SOILS

DESCRIPTIVE NOTE: 261P. PRICE: $47.95

ABSTRACT: "LOADING" COMPRESSIBLE SOILS IN ADVANCE OF STRUCTURAL CONSTRUCTION IS EXAMINED FROM THE INITIAL SITE INVESTIGATION TO CASE STUDIES OF ACTUAL PROJECTS. IN BETWEEN THE AUTHORS EXAMINE THE TESTS AND PROCEDURES NECESSARY TO DECIDE IF PRELOADING IS FEASIBLE, STABILITY, SETTLEMENTS,

VERTICAL DRAINS, AND CHANGES IN SOIL PROPERTIES CAUSED BY PRELOADING. THERE ARE SEVERAL APPENDIXES AND AN EXTENSIVE LIST OF REFERENCES TO COMPLEMENT THE TEXT AS WELL AS MANY DRAWINGS, PHOTOGRAPHS, DESIGN CHARTS, TABLES, AND OTHER HELPFUL DATA.

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW#14497

PUBLICATION DATE: 86

TITLE: FUNDAMENTALS OF ECOLOGICAL MODELLING.

PERSONAL AUTHOR: JORGENSEN, S. E.

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *MODELS; *PLANNING; *RESEARCH

DESCRIPTIVE NOTE: 300P. PRICE: $57.50

ABSTRACT: THIS BOOK PROVIDES AN OVERVIEW OF ECOLOGICAL MODELLING BUT ALSO ALLOWS THE READER TO DEVELOP HIS OR HER OWN MODELS. IT DISCUSSES THE MODELLING PROCEDURE IN DETAIL AND GIVES A STEP-BY-STEP PRESENTATION OF MODEL DEVELOPMENT. THE READER IS ASSUMED TO HAVE A BASIC UNDERSTANDING OF DIFFERENTIAL EQUATIONS AND MATRIX CALCULATIONS.

AVAILABILITY: ELSEVIER SCIENCE PUBLISHERS, BOX 211, 1000 AE, AMSTERDAM, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW#14498

PUBLICATION DATE: 86

TITLE: INDUSTRIAL MEMBRANE PROCESSES.

PERSONAL AUTHOR: WHITE, RALPH E.; PINTAURO, PETER N.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *INDUSTRIAL WASTES; *MEMBRANES; *MEMBRANE TECHNOLOGY; *WASTE TREATMENT; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 148P. PRICE: $15.00 MEMBERS, $30.00 NONMEMBERS

ABSTRACT: THIS SYMPOSIUM SERIES VOLUME EXAMINES EMERGING MEMBRANE FORMULATIONS AND MODULAR UNIT DESIGN AS WELL AS CURRENT AND FUTURE USES FOR THIS TECHNOLOGY. IT IS A COLLECTION OF 16 TECHNICAL PAPERS ORIGINALLY PRESENTED AT A 1985 AICHE CONFERENCE IN HOUSTON. TOPICS COVERED INCLUDE USE OF MEMBRANE SYSTEMS TO REMOVE TRACE POLLUTANTS FROM INDUSTRIAL WASTE SYSTEMS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, N.Y. 10017

IRIS ACCESSION NUMBER: EW#14499

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT ENGINEERING.

PERSONAL AUTHOR: MARTIN, EDWARD J.; JOHNSON, JAMES H., JR.

DESCRIPTOR: *ENVIRONMENT; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *LEGISLATION; *MANAGEMENT; *TECHNOLOGY; *WASTE DISPOSAL; *WASTE REDUCTION; *WASTE TREATMENT

DESCRIPTIVE NOTE: 656P. PRICE: $87.95

ABSTRACT: THE FUNDAMENTALS AND APPLICATIONS OF HAZARDOUS WASTE TECHNOLOGIES INCLUDING THOSE THAT ACHIEVE WASTE DESTRUCTION, TOXICITY REDUCTION, AND ELIMINATION ARE DISCUSSED IN THIS WORK. AMONG THE TOPICS COVERED ARE ENVIRONMENTAL LEGISLATION; RISK ANALYSIS, ASSESSMENT, AND MANAGEMENT; INCINERATION TECHNIQUES AND FUNDAMENTALS; AND LEACHATE TREATMENT AND DISPOSAL.

AVAILABILITY: VAN NOSTRAND REINHOLD, 115 FIFTH AVENUE, NEW YORK, NY 10003

IRIS ACCESSION NUMBER: EW#14500

PUBLICATION DATE: 86

TITLE: TRANSPORTATION OF HAZARDOUS MATERIALS.

DESCRIPTOR: *HAZARDOUS MATERIALS; *MANAGEMENT; PUBLIC HEALTH; FEDERAL ROLE; STATE ROLE; *RISK ASSESSMENT; *TRANSPORTATION; LOCAL ROLE; *TECHNOLOGY

DESCRIPTIVE NOTE: 276P. PRICE: $13.00

ABSTRACT: THIS REPORT DISCUSSES TRANSPORTATION OF ALL HAZARDOUS MATERIALS THAT TRAVEL BY RAIL, TRUCK, WATER, OR AIR.

AVAILABILITY: OFFICE OF TECHNOLOGY ASSESSMENT, U.S. GOVERNMENT PRINTING OFFICE, DEPT. SSMC, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW#14511

PUBLICATION DATE: MAR 87

TITLE: REFORM IN COSTING AND PRICING WATER.

PERSONAL AUTHOR: MANN, PATRICK C.

DESCRIPTOR: *COSTS; *DRINKING WATER; *POLICIES; *WATER RATES; *WATER SUPPLY

DESCRIPTIVE NOTE: 43-48P.

ABSTRACT: ADVOCATED IS FURTHER REFORM IN COSTING PRACTICES TO ARRIVE AT EQUITABLE WATER RATES.

AVAILABILITY: AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW#14512

PUBLICATION DATE: MAR 87

TITLE: PUBLIC ATTITUDES TOWARD WATER CONSERVATION.

PERSONAL AUTHOR: FLACK, J. ERNEST; GREENBERG, JOANNE

DESCRIPTOR: *ATTITUDES; *COLORADO; CONSERVATION; *PUBLIC ATTITUDES; *RESEARCH REPORTS; *SURVEYS; *WATER CONSERVATION; WATER RESOURCES; WATER SUPPLY

DESCRIPTIVE NOTE: 46-51P.

ABSTRACT: DESCRIBED ARE PUBLIC ATTITUDES TOWARD WATER CONSERVATION. CONSUMERS IN NORTHERN COLORADO INDICATE THEY ARE WILLING TO ADOPT MOST WATER CONSERVATION PRACTICES.

AVAILABILITY: AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW#14513

PUBLICATION DATE: MAR 87

TITLE: THE EFFECTIVENESS OF RESIDENTIAL WATER CONSERVATION MEASURES.

PERSONAL AUTHOR: MADDAUS, WILLIAM O.

DESCRIPTOR: *CONSERVATION; *DEMONSTRATION PROJECTS; *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *SURVEYS; *WATER CONSERVATION; WATER RESOURCES; WATER SUPPLY

DESCRIPTIVE NOTE: 52-58P.

ABSTRACT: DEMONSTRATION PROJECTS SPONSORED BY THE U.S. DEPT. OF HOUSING AND URBAN DEVELOPMENT HELP QUANTIFY WATER SAVINGS THAT CAN BE ACHIEVED IN HOMES.

AVAILABILITY: AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW#14514

PUBLICATION DATE: MAR 87

TITLE: SOCIO ECONOMIC FACTORS AFFECTING WATER CONSERVATION IN SOUTHERN TEXAS.

PERSONAL AUTHOR: OLSEN, DARRYLL; HIGHSTREET, ALLAN L.

DESCRIPTOR: *ATTITUDES; CONSERVATION; *POLICIES; *RESEARCH REPORTS; *SURVEYS; *WATER CONSERVATION; WATER SUPPLY; WATER RESOURCES; *TEXAS

DESCRIPTIVE NOTE: 59-68P.

ABSTRACT: REPORTED ARE THE RESULTS OF A PUBLIC SURVEY THAT EVALUATED WATER CONSUMERS' WILLINGNESS TO IMPLEMENT WATER CONSERVATION PRACTICES IN THE SAN ANTONIO REGION.

AVAILABILITY: AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW#14515

PUBLICATION DATE: MAR 87

TITLE: THE IMPORTANCE OF WHITING AS A COMPONENT OF RAW WATER TURBIDITY.

PERSONAL AUTHOR: EFFLER, STEVEN W.

DESCRIPTOR: *CHEMISTRY; *CARBONATES; *TURBIDITY; *WATER TREATMENT; WATER SUPPLY; *WATER QUALITY; *WHITING

DESCRIPTIVE NOTE: 80-82P.

ABSTRACT: DESCRIBED IS A VERIFIED AND SIMPLE TECHNIQUE THAT CAN BE USED FOR DETERMINING TURBIDITY CAUSED BY CARBONATE PRECIPITATES.

AVAILABILITY: AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW#14516

PUBLICATION DATE: MAR 87

TITLE: NEWARK'S HAZARDOUS MATERIALS MANAGEMENT AND PREPAREDNESS PROGRAMS.

PERSONAL AUTHOR: SUDOL, FRANK J.; STAEHLE, WILLIAM J.

DESCRIPTOR: *EQUIPMENT; *HAZARDOUS MATERIALS; *MANAGEMENT; *NEW JERSEY; *REGULATIONS; *TRAINING; *RISK ASSESSMENT

DESCRIPTIVE NOTE: 63-64, 94-96P.

ABSTRACT: DESCRIBED ARE THE NEWARK (NEW JERSEY) HAZARDOUS MATERIALS MANAGEMENT AND PREPAREDNESS PROGRAMS.

AVAILABILITY: PUBLIC WORKS; V118 N3

IRIS ACCESSION NUMBER: EW#14517

PUBLICATION DATE: MAR 87

TITLE: OMAHA RECYCLES SLUDGE IN AGRICULTURAL PROGRAM.

PERSONAL AUTHOR: SLATTERY, DAN

DESCRIPTOR: *AGRICULTURE; *COSTS; *FERTILIZER; *OPERATIONS (WASTEWATER); *RECYCLING; *SLUDGE; *RESOURCE RECOVERY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 74-76P.

ABSTRACT: DESCRIBED IS A PROGRAM IN OMAHA, NEBRASKA FOR RECYCLING WASTEWATER SLUDGE THROUGH AN AGRICULTURAL PROGRAM.

AVAILABILITY: PUBLIC WORKS; V118 N3

IRIS ACCESSION NUMBER: EW#14518

PUBLICATION DATE: MAR 87

TITLE: BIG CHANGES AHEAD FOR DRINKING WATER INDUSTRY.

PERSONAL AUTHOR: CULP, GORDON L.

DESCRIPTOR: *COMPLIANCE; DRINKING WATER; LEGISLATION; *LEGISLATIVE AMENDMENTS; POLICY; *OPERATIONS (WATER); *SAFE DRINKING WATER ACT; *WATER TREATMENT

DESCRIPTIVE NOTE: 24-26P.

ABSTRACT: DESCRIBED ARE SOME OF THE CHANGES IN THE SAFE DRINKING WATER ACT DUE TO RECENT AMENDMENTS. SOME OF THE IMPACTS OF THIS LEGISLATION ON WATER UTILITIES ARE CONSIDERED.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS ACCESSION NUMBER: EW#14519

PUBLICATION DATE: MAR 87
TITLE: A PURUTY CRUSADE TAKES ON THE DRINKING WATER INDUSTRY.

PERSONAL AUTHOR: KARAGANIS, JOSEPH V.

DESCRIPTOR: *COMPLIANCE; *LIABILITY; *DRINKING WATER; *LEGISLATION; *OPERATIONS (WATER); *REGULATIONS; *STANDARDS; *PUBLIC HEALTH; *WATER TREATMENT

DESCRIPTIVE NOTE: 27-29, 46P.

ABSTRACT: DESCRIBED ARE SOME OF THE REGULATIONS AFFECTING DRINKING WATER QUALITY AND TREATMENT INCLUDING 1986 AMENDMENTS AND SOME POSSIBLE IMPLICATIONS OF THE REGULATIONS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS ACCESSION NUMBER: EW#14520

PUBLICATION DATE: MAR 87

TITLE: DOPPLER EFFECT TIED TO FLOW RATE.

PERSONAL AUTHOR: YOST, ROD

DESCRIPTOR: *DOPPLER EFFECT; *FLOW METERS; *EQUIPMENT; *WATER UTILITIES; *WASTEWATER UTILITIES

DESCRIPTIVE NOTE: 30-31P.

ABSTRACT: DESCRIBED IS THE DOPPLER FLOWMETER FOR USE IN WATER AND WASTEWATER APPLICATIONS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS ACCESSION NUMBER: EW#14521

PUBLICATION DATE: MAR 87

TITLE: CHEMICALS IN THE WATER TREATMENT PROCESS.

PERSONAL AUTHOR: HARMS, LELAND L.

DESCRIPTOR: *COAGULATION; *CHEMICAL TREATMENT; *DISINFECTION; *FLUORIDATION; *ODOR; *OPERATIONS (WATER); *TASTES; *WATER TREATMENT; *SOFTENING; *STABILIZATION

DESCRIPTIVE NOTE: 32-34P.

ABSTRACT: DESCRIBED ARE USES OF CHEMICALS IN THE WATER TREATMENT PROCESS. A CHART OF CHEMICALS USED IS INCLUDED.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS ACCESSION NUMBER: EW#14522

PUBLICATION DATE: 85
TITLE: PROCEEDING: SECOND INTERNATIONAL CONFERENCE ON FIXED-FILM BIOLOGICAL PROCESSES. VOLUME I.

PERSONAL AUTHOR: BANDY, JOHN T.; AND OTHERS

DESCRIPTOR: *BIOLOGICAL PROCESSES; *CONFERENCE PROCEEDINGS; *FIXED-FILM BIOLOGICAL PROCESSES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 1#42P. PRICE: $63.52

ABSTRACT: THE SECOND INTERNATIONAL CONFERENCE ON FIXED-FILM BIOLOGICAL PROCESSES WAS HELD AT THE HYATT REGENCY HOTEL, CRYSTAL CITY, ARLINGTON, VIRGINIA, ON JULY 1#-12, 1984. IT WAS THE SECOND IN A SERIES OF CONFERENCES WHICH SERVE AS OPPORTUNITIES TO ASSESS THE APPLICABILITY OF THESE ADVANCED TECHNOLOGIES FOR THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WASTEWATERS. THE PROCEEDINGS ARE ESSENTIALLY THE PAPERS AND DISCUSSION GIVEN BY AUTHORS AND PARTICIPANTS. THE PAPERS ARE DIVIDED INTO 17 MAJOR TOPIC AREAS IN TWO VOLUMES. THE FIRST VOLUME CONTAINS THE FIRST NINE TOPIC AREAS. THESE ARE: (1) MICROBIOLOGY OF BIOFILM; (2) BIOFILM GROWTH CHARACTERISTICS; (3) SELECTION AND ARRANGEMENT OF FIXED-FILM MEDIA FOR ANAEROBIC TREATMENT SYSTEMS; (4) SPECIAL INVESTIGATION ON FIXED-FILM BIOLOGICAL SYSTEMS; (5) EFFECT OF PACKED-BED MEDIA CONFIGURATION ON TRICKLING FILTER APPLICATIONS; (6) REACTION KINETICS AND PROCESS MODELINGS; (7) NUTRIENT REMOVAL USING FIXED-FILM SYSTEMS; (8) REPORT FROM EPA ON COLUMBUS RBC RESEARCH PROJECT; AND (9) AERATED FIXED-FILM

WASTE TREATMENT SYSTEMS.
AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014523

PUBLICATION DATE: 85

TITLE: PROCEEDINGS: SECOND INTERNATIONAL CONFERENCE ON FIXED-FILM BIOLOGICAL PROCESSES. VOLUME II.

PERSONAL AUTHOR: BANDY, JOHN T.; AND OTHERS

DESCRIPTOR: *BIOLOGICAL PROCESSES; *CONFERENCE PROCEEDINGS; *FIXED-FILM BIOLOGICAL PROCESSES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT; *DESIGN; *MAINTENANCE; *EQUIPMENT; *RESEARCH

DESCRIPTIVE NOTE: 1068P. PRICE: $65.00

ABSTRACT: THE SECOND INTERNATIONAL CONFERENCE ON FIXED-FILM BIOLOGICAL PROCESSES WAS HELD AT THE HYATT REGENCY HOTEL, CRYSTAL CITY, ARLINGTON, VIRGINIA, ON JULY 10-12, 1984. IT WAS THE SECOND IN A SERIES OF CONFERENCES WHICH SERVE AS OPPORTUNITIES TO ASSESS THE APPLICABILITY OF THESE ADVANCED TECHNOLOGIES FOR THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WASTEWATERS. THE PROCEEDINGS ARE ESSENTIALLY THE PAPERS AND DISCUSSION GIVEN BY AUTHORS AND PARTICIPANTS. THE PAPERS ARE DIVIDED INTO 17 MAJOR TOPIC AREAS IN TWO VOLUMES. THE SECOND VOLUME CONTAINS TOPICS 10 THROUGH 17. THESE ARE: (10) INNOVATIVE APPLICATIONS OF FIXED-FILM BIOREACTORS; (11) RESEARCH NEEDS WORKSHOP; (12) INDUSTRIAL WASTEWATER TREATMENT USING FIXED-FILM REACTORS--I; (13) NITRIFICATION (14) INTEGRATED TREATMENT SYSTEMS; (15) INDUSTRIAL WASTEWATER TREATMENT USING FIXED-FILM REACTORS--II; (16) DESIGN, OPERATION, AND MAINTENANCE; AND (17) POSTER SESSION.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014524

PUBLICATION DATE: MAR 87

TITLE: CASE STUDIES IN CO-COMPOSTING.

PERSONAL AUTHOR: EPSTEIN, ELIOT

DESCRIPTOR: *CASE STUDIES; COMPOSTING; *CO-COMPOSTING; *PROJECT DESCRIPTIONS; *MASSACHUSETTS; *NORTH CAROLINA; *SEWAGE SLUDGE; *WASTE DISPOSAL; *RECYCLING

DESCRIPTIVE NOTE: 24-26P.

ABSTRACT: PROJECTS FOR CO-COMPOSTING ON NANTUCKET ISLAND AND NORTH CAROLINA ARE DESCRIBED.

AVAILABILITY: BIOCYCLE; V28 N3

IRIS ACCESSION NUMBER: EW014525
PUBLICATION DATE: MAR 87

TITLE: ANALYSIS OF EPA GUIDANCE ON COMPOSTING SLUDGE. PART III - OXYGEN, MOISTURE, ODOR, PATHOGENS.

PERSONAL AUTHOR: FINSTEIN, M. S.; AND OTHERS

DESCRIPTOR: *COMPOSTING; *MOISTURE; *OXYGEN; *ODOR; *PATHOGENS; *PERFORMANCE EVALUATION; *SEWAGE SLUDGE; *SLUDGE; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 38-44P.

ABSTRACT: THIS PAPER IS PART III OF A FOUR PART SERIES. PROBLEMS IN COMPOSTING SLUDGE CAN BE ALLEVIATED BY MAINTAINING TEMPERATURES BELOW 60 DEGREES CELSIUS THROUGH FORCED PRESSURE VENTILATION WITH TEMPERATURE FEEDBACK CONTROL.

AVAILABILITY: BIOCYCLE; V28 N3

IRIS ACCESSION NUMBER: EW014526

PUBLICATION DATE: MAR 87

TITLE: SEWER SYSTEM SOFTWARE.

DESCRIPTOR: *BIBLIOGRAPHIES; *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *MAINTENANCE; *LABORATORY PROCEDURES; *OPERATIONS (WASTEWATER); *MANAGEMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 8-11P.

ABSTRACT: DESCRIBED ARE COMPUTER SOFTWARE PROGRAMS SPECIFICALLY AIMED AT THE WASTEWATER FIELD, INCLUDING OPERATIONS AND MAINTENANCE, COLLECTION SYSTEMS, LABORATORY PROCESSES, AND OTHER APPLICATIONS.

AVAILABILITY: OPERATIONS FORUM; V4 N3

IRIS ACCESSION NUMBER: EW014527

PUBLICATION DATE: MAR 87

TITLE: CONVENIENT VENTILATION.

PERSONAL AUTHOR: WEITKEMPER, BILL

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; *MANHOLES; *OPERATIONS (WASTEWATER); *SAFETY; *VENTILATION; *SEWERS

DESCRIPTIVE NOTE: 12-15P.

ABSTRACT: DESCRIBED ARE PROCEDURES AND EQUIPMENT TO VENTILATE MANHOLES AND OTHER CONFINED SPACES.

AVAILABILITY: OPERATIONS FORUM; V14 N3

IRIS ACCESSION NUMBER: EW#14528
PUBLICATION DATE: MAR 87

TITLE: COST-EFFECTIVE O&M: SIX CITIES SAVE OVER $1 MILLION.

DESCRIPTOR: *COSTS; *COST REDUCTIONS; *MAINTENANCE; *MANAGEMENT; *PERFORMANCE EVALUATION; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *TRAINING

DESCRIPTIVE NOTE: 16-22P.

ABSTRACT: SUMMARIZED ARE DATA FROM SIX CITIES SELECTED FOR COST-EFFECTIVE OPERATIONS AND MAINTENANCE. THE ARTICLE PRESENTS KEYS TO SUCCESS, TECHNIQUES USED, AND EXAMPLES OF HOW SOME PLANTS USED THE TECHNIQUES.

AVAILABILITY: OPERATIONS FORUM; V14 N3

IRIS ACCESSION NUMBER: EW#14529

PUBLICATION DATE: MAR 87

TITLE: SLUDGE QUALITY APPROACH. FUNDAMENTALS PROCESS CONTROL PART X.

PERSONAL AUTHOR: HOBSON, TIM

DESCRIPTOR: *MANAGEMENT; *OPERATIONS (WASTEWATER); *SLUDGE; *SLUDGE QUALITY APPROACH; *RETURN SLUDGE FLOW CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 24-29P.

ABSTRACT: THIS IS THE 10TH ARTICLE IN A SERIES ON PROCESS CONTROL FUNDAMENTALS. THIS ARTICLE CONSIDERS RETURN SLUDGE FLOW CONTROL BY USING THE SLUDGE QUALITY APPROACH FOR DETERMINING THE CORRECT RATE.

AVAILABILITY: OPERATIONS FORUM; V14 N3

IRIS ACCESSION NUMBER: EW#14530

PUBLICATION DATE: MAR 87

TITLE: ASBESTOS HAZARD MANAGEMENT.

PERSONAL AUTHOR: OUELLETTE, ROBERT; CHEREMISINOFF, PAUL N.

DESCRIPTOR: *ASBESTOS; *HAZARDOUS MATERIALS; *MANAGEMENT; *POLLUTION CONTROL; *PUBLIC HEALTH

DESCRIPTIVE NOTE: 36-43P.

ABSTRACT: DESCRIBED ARE CONCERNS AND PROCEDURES FOR ASBESTOS HAZARD MANAGEMENT.

AVAILABILITY: POLLUTION ENGINEERING; V19 N3

IRIS ACCESSION NUMBER: EW#14531
PUBLICATION DATE: MAR 87

TITLE: PACKAGED SYSTEM TREATS LANDFILL LEACHATE.

PERSONAL AUTHOR: BALDWIN, WILLIAM C.; ELLIS, ROBERT H.

DESCRIPTOR: *FACILITIES; *LEACHATE; *LANDFILLS; *PACKAGE PLANTS; *WASTE TREATMENT; *WASTEWATER TREATMENT; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 44-46P.

ABSTRACT: DESCRIBED IS A PACKAGE SYSTEM FOR TREATING LANDFILL LEACHATE. THE FACILITY IS LOCATED IN PENNSYLVANIA.

AVAILABILITY: POLLUTION ENGINEERING; V19 N3

IRIS ACCESSION NUMBER: EW#14532

PUBLICATION DATE: MAY 86

TITLE: HEALTH ASPECTS OF THE DISPOSAL OF WASTE CHEMICALS.

PERSONAL AUTHOR: GRISHAM, JOE W.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *HAZARDOUS MATERIALS; *PUBLIC HEALTH; *POLLUTION; *WASTE DISPOSAL; *POLLUTION CONTROL; *RISK ASSESSMENT; *SAFETY

DESCRIPTIVE NOTE: 463P. PRICE: $85.##

ABSTRACT: INTENDED TO BE A SOURCE OF INFORMATION ON THE NATURE AND SIGNIFICANCE OF HEALTH EFFECTS RELATED TO CHEMICAL DISPOSAL, THIS DOCUMENT IS THE FINAL REPORT OF THE EXECUTIVE SCIENTIFIC PANEL ON HEALTH ASPECTS OF THE DISPOSAL OF WASTE CHEMICALS. THE PANEL, WHICH WAS ORGANIZED BY THE UNIVERSITIES ASSOCIATED FOR RESEARCH AND EDUCATION IN PATHOLOGY (UAREP), REVIEWED SCIENTIFIC LITERATURE, COMMISSIONED REPORTS FROM VARIOUS TASK FORCES ON WASTE DISPOSAL, AND SOLICITED INPUT FROM SCIENTISTS AND INTERESTED INDIVIDUALS AND ORGANIZATIONS. FINDINGS ARE REPORTED ON: (1) WASTE CHEMICALS OF MAJOR CONCERN; (2) FACTORS INFLUENCING HUMAN EXPOSURE; (3) THE ASSESSMENT OF HEALTH EFFECTS; (4) EPIDEMIOLOGY IN EXPOSED POPULATIONS; (5) FACTORS INVOLVED IN RISK ASSESSMENT; (6) CHEMICAL EXPOSURE HEALTH STUDIES; (7) DISPOSAL SITE HEALTH STUDIES; AND(8) INTERNATIONAL ASPECTS OF CHEMICAL WASTE DISPOSAL. THE REPORT IS SUMMARIZED, AND CONCLUSIONS AND RECOMMENDATIONS ARE INCLUDED. THE APPENDICES CONTAIN A SYNOPSIS OF INFORMATION ON VARIOUS CHEMICALS, A LIST OF STUDY PARTICIPANTS, AND A LIST OF INDIVIDUALS AND ORGANIZATIONS RESPONDING TO THE DRAFT REPORT.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523

IRIS ACCESSION NUMBER: EW@14533
PUBLICATION DATE: MAR 87

TITLE: COMBINING UV/OZONE TO OXIDIZE TOXICS.

PERSONAL AUTHOR: MCSHEA, LAWRENCE J.; AND OTHERS

DESCRIPTOR: *COLORADO; *OPERATIONS (WASTEWATER); *ORGANIC POLLUTANTS; *OZONE; *TECHNOLOGY; *TOXIC SUBSTANCES; *ULTRAVIOLET LIGHT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 58-59P.

ABSTRACT: DESCRIBED IS ULTRAVIOLET LIGHT/OZONE TECHNOLOGY FOR TREATING TOXIC MATERIALS (ORGANIC POLLUTANTS) IN WASTEWATER AND GROUNDWATER. THE TECHNOLOGY IS BEING USED FOR TREATING WASTEWATER FROM A WOOD PRESERVING SITE IN DENVER, COLORADO.

AVAILABILITY: POLLUTION ENGINEERING; V19 N3

IRIS ACCESSION NUMBER: EW@14534

PUBLICATION DATE: MAR 87

TITLE: HOW TO ESTABLISH A MENTORING PROGRAM.

PERSONAL AUTHOR: LAWRIE, JOHN

DESCRIPTOR: *MENTORING; *STAFF DEVELOPMENT; *TRAINING

DESCRIPTIVE NOTE: 25-27P.

ABSTRACT: DESCRIBED IS A WAY OF USING A MENTORING PROGRAM FOR AN ORGANIZATION.

AVAILABILITY: TRAINING & DEVELOPMENT JOURNAL; V41 N3

IRIS ACCESSION NUMBER: EW@14535

PUBLICATION DATE: MAR 87

TITLE: RED FLAGS IN PERFORMANCE APPRAISAL.

PERSONAL AUTHOR: PHILLIPS, KENNETH R.

DESCRIPTOR: *MANAGEMENT; *PERFORMANCE APPRAISAL; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 80-82P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR DETERMINING IF A PERFORMANCE APPRAISAL SYSTEM IS WORKING.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41-N3

IRIS ACCESSION NUMBER: EW@14536
PUBLICATION DATE: MAR 87

TITLE: FOCUSING PROBLEM MANAGEMENT.

PERSONAL AUTHOR: PHILLIPS, STEVEN R.; BERGQUIST, WILLIAM H.

DESCRIPTOR: *MANAGEMENT; *MODELS; *PROBLEM SOLVING

DESCRIPTIVE NOTE: 87-89P.

ABSTRACT: DESCRIBED IS A PROBLEM MANAGEMENT MODEL. THE ARTICLE INCLUDES A DISCUSSION OF THE USE OF THE MODEL AND BENEFITS OF THE USE OF THE MODEL.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N3

IRIS ACCESSION NUMBER: EW@14537

PUBLICATION DATE: FEB 87

TITLE: FOCUS ON HAZARDOUS MATERIALS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *HAZARDOUS MATERIALS; *FIRE; *SAFETY; *SODIUM HYDROXIDE; *PUBLIC HEALTH; *SPILLS; *STORAGE

DESCRIPTIVE NOTE: 17-18P.

ABSTRACT: THIS ARTICLE DESCRIBES SODIUM HYDROXIDE AND CHARACTERISTICS RELATED TO PERSONNEL PROTECTION, SHIPPING, STORAGE, FIRES, SPILLS, EXPOSURE, AND PROPERTIES.

AVAILABILITY: INDUSTRIAL FIRE WORLD; V2 N1

IRIS ACCESSION NUMBER: EW@14543

PUBLICATION DATE: APR 87

TITLE: FOUR BY FOUR. WHAT DO CONTRACT TRAINERS NEED TO KNOW TO BE SUCCESSFUL?

PERSONAL AUTHOR: GALL, ADRIENNE L.

DESCRIPTOR: *CONTRACT TRAINING; *INSTRUCTIONAL IMPROVEMENT; *RECOMMENDATIONS; *TRAINING

DESCRIPTIVE NOTE: 26-32P.

ABSTRACT: PROVIDED ARE SOME HELPFUL HINTS RELATED TO WHAT MAKES A CONTRACT TRAINER GOOD.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N4

IRIS ACCESSION NUMBER: EW#14544
PUBLICATION DATE: APR 87

TITLE: ESTABLISHING A CREATIVE CLIMATE.

PERSONAL AUTHOR: RAUDSEPP, EUGENE

DESCRIPTOR: *CREATIVITY; *ORGANIZATIONAL CLIMATE; *PRODUCTIVITY

DESCRIPTIVE NOTE: 5#-53P.

ABSTRACT: DESCRIBED ARE TWO DOZEN WAYS TO ACHIEVE INNOVATIVE RESULTS IN AN ORGANIZATION.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N4

IRIS ACCESSION NUMBER: EW#14545

PUBLICATION DATE: APR 87

TITLE: TRAIN MANAGERS TO WRITE WINNING JOB DESCRIPTIONS.

PERSONAL AUTHOR: KENNEDY, WILLIAM R.

DESCRIPTOR: *JOB DESCRIPTIONS; *MANAGEMENT; *TRAINING; *WORKSHOPS

DESCRIPTIVE NOTE: 62-64P.

ABSTRACT: PROCEDURES TO FOLLOW WHEN WRITING JOB DESCRIPTIONS ARE PRESENTED.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N4

IRIS ACCESSION NUMBER: EW#14546

PUBLICATION DATE: APR 87

TITLE: MANUAL WRITING MADE EASIER.

PERSONAL AUTHOR: REDDOUT, DONNA J.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *TRAINING; *TRAINING MANUALS; *WRITING

DESCRIPTIVE NOTE: 66-68P.

ABSTRACT: PROVIDED ARE SUGGESTIONS FOR WRITING TECHNICAL TRAINING MANUALS.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N4

IRIS ACCESSION NUMBER: EW#14547
PUBLICATION DATE: APR 87

TITLE: COMPUTERS AND TRAINING: ALLIES OR ENEMIES?

PERSONAL AUTHOR: GALAGAN, PATRICIA

DESCRIPTOR: *COMPUTERS; *COMPUTER APPLICATIONS; *INSTRUCTION; *LEARNING; *TRAINING

DESCRIPTIVE NOTE: 73-76P.

ABSTRACT: DESCRIBED IS THE USE OF COMPUTERS FOR TRAINING AND WHAT SOME PEOPLE HAVE LEARNED THROUGH USE AND RESEARCH.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N4

IRIS ACCESSION NUMBER: EW#14549

PUBLICATION DATE: FEB 87

TITLE: COMPOSTING MUNICIPAL SLUDGE: A TECHNOLOGY EVALUATION.

PERSONAL AUTHOR: BENEDICT, ARTHUR H.; AND OTHERS

DESCRIPTOR: *COMPOSTING; *COSTS; *RESEARCH REPORTS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TECHNOLOGY; *SEWAGE SLUDGE; *WASTEWATER TREATMENT; *SLUDGE; *RECYCLING; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 191P. PRICE: $12.46

ABSTRACT: INVESTIGATIONS AT FIVE FULL-SCALE MUNICIPAL SLUDGE COMPOSTING FACILITIES ARE DESCRIBED IN THIS REPORT. STUDY OBJECTIVES WERE TO ASSESS DESIGN, CONSTRUCTION, OPERATION, AND COST FEATURES OF STATIC PILE AND WINDROW TECHNOLOGIES USED AT EACH FACILITY AND TO COMPARE THESE FEATURES FOR MUNICIPAL SLUDGE COMPOSTING APPLICATIONS. THREE STATIC PILE FACILITIES, ONE CONVENTIONAL WINDROW FACILITY, AND ONE AERATED WINDROW FACILITY WERE INVESTIGATED. ONE STATIC PILE FACILITY COMPOSTS ANAEROBICALLY DIGESTED SLUDGE, ONE COMPOSTS LIMED RAW SLUDGE, AND THE THIRD COMPOSTS UNLIMED RAW SLUDGE. BOTH WINDROW FACILITIES COMPOST ANAEROBICALLY DIGESTED SLUDGE. SLUDGE LOADINGS VARIED FROM 5# TO 5## WET TONS PER DAY. KEY FINDINGS OF THE STUDY ARE INCLUDED IN THE REPORT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14551

PUBLICATION DATE: 86

TITLE: APPROPRIATE WASTEWATER MANAGEMENT TECHNOLOGIES FOR RURAL AREAS UNDER ADVERSE TECHNOLOGIES.

PERSONAL AUTHOR: WALLWE, D. H.; TOWNSHEND, A. R.

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *CONFERENCE PROCEEDINGS; *INNOVATIVE TECHNOLOGY; *ONSIDE TREATMENT SYSTEMS; *RURAL AREAS; *TECHNOLOGY; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 425P. PRICE: $2#.##

ABSTRACT: THIS BOOK CONTAINS THE PROCEEDINGS OF A WORKSHOP HELD IN OCTOBER, 1986. SPECIALISTS FROM ACROSS CANADA AND FROM THE U.S. CONTRIBUTED PAPERS AND DISCUSSIONS RELATED TO INNOVATIVE AND APPROPRIATE TECHNOLOGIES FOR UTILITIES DELIVERIES/COLLECTION SYSTEMS, SMALL COMMUNITY TREATMENT SYSTEMS, ON-SITE TREATMENT AND DISPOSAL, AND WASTEWATER MANAGEMENT DISTRICTS.

AVAILABILITY: CRWS, P.O. BOX 1###, HALIFAX, N.S. CANADA, B3J 2X4

IRIS ACCESSION NUMBER: EW#14552

PUBLICATION DATE: 86

TITLE: WASTEWATER TREATMENT VIDEOTRAINING SERIES. 38#1--INTRODUCTION. WORKBOOK AND NOTES.

DESCRIPTOR: *ACTIVATED SLUDGE PROCESS; *AUDIOVISUAL AIDS; *CLARIFICATION; *INSTRUCTIONAL MATERIALS; *BIOLOGICAL TREATMENT; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *TRAINING; *VIDEOTAPES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 5#P. CONTACT FOR PRICE
ABSTRACT: THIS IS THE SECOND IN A SERIES OF FOUR VIDEOTAPE PROGRAMS ABOUT THE ART AND SCIENCE OF WASTEWATER TREATMENT. "ACTIVATED SLUDGE AND CLARIFICATION PROCESSES" CONTAINS A VIDEOTAPE AND A WORKBOOK. TOPICS PRSESNTED INCLUDE THE FOLLOWING: (1) GENERAL BIOLOGICAL TREATMENT REQUIREMENTS; (2) THE ACTIVATED SLUDGE PROCESS; (3) CONTROL OF ACTIVATED SLUDGE PROCESSES; AND (4) CLARIFICATION PROCESSES.

AVAILABILITY: VCA TECHNICOLOR, 244# S. WOLF RD., DES PLAINES, IL 6##18

IRIS ACCESSION NUMBER: EW#14553

PUBLICATION DATE: 86

TITLE: WASTEWATER TREATMENT VIDEOTRAINING SERIES. 38#2--ACTIVATED SLUDGE AND CLARIFICATION PROCESSES. WORKBOOK AND NOTES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *TRAINING; *VIDEOTAPES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 44P. CONTACT FOR PRICE

ABSTRACT: THIS IS THE FIRST IN A SERIES OF FOUR VIDEOTAPE PROGRAMS ABOUT THE ART AND SCIENCE OF WASTEWATER TREATMENT. "INTRODUCTION TO WASTEWATER TREATMENT" CONTAINS A VIDEOTAPE AND A WORKBOOK. TOPICS PRESENTED INCLUDE THE FOLLOWING: (1) THE NEED FOR WASTEWATER TREATMENT AND QUANTITIES AND CHARACTERISTICS OF WASTEWATER; (2) WASTEWATER COLLECTION SYSTEMS; (3) INTRODUCTION TO WASTEWATER TREATMENT PROCESSES; AND (4) SAMPLING OF WASTEWATER.

AVAILABILITY: VCA TECHNICOLOR, 244# S. WOLF RD., DES PLAINES, IL 6##18

IRIS ACCESSION NUMBER: EW#14554

PUBLICATION DATE: APRIL 87

TITLE: RADIONUCLIDES IN DRINKING WATER: AN OVERVIEW.

PERSONAL AUTHOR: AIETA, E. MARCO; AND OTHERS

DESCRIPTOR: *DRINKING WATER; *PUBLIC HEALTH; *RADIONUCLIDES; *RADIUM; *RADON; *URANIUM; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 144-152P.

ABSTRACT: PROVIDED IS AN OVERVIEW OF RADIONUCLIDES IN DRINKING WATER. RADIUM, URANIUM, AND RADON ARE THE RADIONUCLIDES OF MOST CONCERN TO DRINKING WATER SUPPLIERS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N4

IRIS ACCESSION NUMBER: EW#14555

PUBLICATION DATE: APRIL 87

TITLE: ESTIMATING THE HEALTH RISKS OF RADON IN DRINKING WATER.

PERSONAL AUTHOR: COTHERN, C. RICHARD

DESCRIPTOR: *DRINKING WATER; *PUBLIC HEALTH; *RADIONUCLIDES; *RADON; *RISK ASSESSMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 153-158P.

ABSTRACT: DISCUSSED ARE THE HEALTH RISKS OF RADON IN DRINKING WATER.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N4

IRIS ACCESSION NUMBER: EW#14556

PUBLICATION DATE: APRIL 87

TITLE: POINT-OF-ENTRY REMOVAL OF RADON FROM DRINKING WATER.

PERSONAL AUTHOR: LOWRY, JERRY D.; AND OTHERS

DESCRIPTOR: *DIFFUSED BUBBLE AERATION; *DRINKING WATER; *GRANULAR ACTIVATED CARBON; *OPERATIONS (DRINKING WATER); *RADIONUCLIDES; *RADON; *PERFORMANCE EVALUATION; *WATER TREATMENT; *PUBLIC HEALTH

DESCRIPTIVE NOTE: 162-169P.

ABSTRACT: TWO PROCESSES WERE INVESTIGATED FOR POINT-OF-USE REMOVAL OF RADON IN DRINKING WATER. GRANULAR ACTIVATED CARBON (GAC) AND DIFFUSED BUBBLE AERATION WERE TESTED. RESULTS ARE REPORTED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N4

IRIS ACCESSION NUMBER: EW#14557

PUBLICATION DATE: MARCH 87

TITLE: HOUSEHOLD HAZARDOUS WASTE: THE UNRESOLVED WATER QUALITY DILEMMA.

PERSONAL AUTHOR: BROWN, TIMOTHY S.

DESCRIPTOR: HAZARDOUS WASTES; *HOUSEHOLD WASTES; *PUBLIC HEALTH; *WASTE DISPOSAL; *WASTE COLLECTION PROGRAMS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 12#-124P.

ABSTRACT: THIS ARTICLE CONSIDERS THE PROBLEM OF HOUSEHOLD HAZARDOUS WASTES AND THE POTENTIAL IMPACT OF THESE WASTES ON WATER QUALITY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N3

IRIS ACCESSION NUMBER: EW#14558

PUBLICATION DATE: MARCH 87

TITLE: COMPOSTING'S EMERGING ROLE IN SLUDGE MANAGEMENT: A NATIONAL PERSPECTIVE. FEATURE.

PERSONAL AUTHOR: KUCHENRITHER, R.D.; AND OTHERS.

DESCRIPTOR: *CASE STUDIES; *COMPOSTING; *FACILITIES; *MANAGEMENT; *OPERATIONS (WASTEWATER); *RECYCLING; *SEWAGE SLUDGE; *SLUDGE; *WASTE DISPOSAL; PENNSYLVANIA; COLORADO; CALIFORNIA

DESCRIPTIVE NOTE: 126-131P.

ABSTRACT: THIS PAPER DOCUMENTS ADVANCES IN SLUDGE COMPOSTING AND FEATURES CASE STUDIES OF THREE WASTEWATER TREATMENT FACILITIES USING SLUDGE COMPOSTING.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N3

IRIS ACCESSION NUMBER: EW#14559

PUBLICATION DATE: MARCH 87

TITLE: STATISTICAL ANALYSIS OF INDUSTRIAL WASTEWATER MONITORING DATA.

PERSONAL AUTHOR: LOFTIS, J.C.; AND OTHERS

DESCRIPTOR: *DATA ANALYSIS; *DATA MANAGEMENT SYSTEMS; *INDUSTRIAL WASTES; *MONITORING; *MONITORING PROGRAMS; *STATISTICAL ANALYSIS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 145-151P.

ABSTRACT: A WHOLE SYSTEM APPROACH APPLIED TO HISTORICAL MONITORING DATA ENABLED IBM TO DESIGN A STREAMLINED MONITORING PROGRAM FROM ACTUAL SAMPLE COLLECTION THROUGH STATISTICAL ANALYSIS OF INDUSTRIAL WASTEWATER DATA.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N3

IRIS ACCESSION NUMBER: EW#14560

PUBLICATION DATE: MARCH 87

TITLE: EPA DESIGN INFORMATION REPORT: ANAEROBIC DIGESTER MIXING SYSTEMS.

DESCRIPTOR: *ANAEROBIC DIGESTERS; *DESIGN; *EQUIPMENT; *MIXING SYSTEMS; *PERFORMANCE EVALUATION; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 162-17#P.

ABSTRACT: THIS REPORT DISCUSSES THE CURRENT PROBLEMS AND POTENTIAL SOLUTIONS ASSOCIATED WITH THE SELECTION, DESIGN, AND OPERATION OF ANAEROBIC DIGESTER MIXING SYSTEMS. THE REPORT CONSIDERS THE FOUR MAJOR TYPES OF MIXING SYSTEMS AND PRESENTS THEIR ADVANTAGES AND DISADVANTAGES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N3

IRIS ACCESSION NUMBER: EW#14567

PUBLICATION DATE: APRIL 87

TITLE: THE CONTROL OF BULKING SLUDGES: FROM THE EARLY INNOVATORS TO CURRENT PRACTICE.

PERSONAL AUTHOR: ALBERTSON, ORRIS E.

DESCRIPTOR: *ACTIVATED SLUDGE; *DESIGN; *OPERATIONS (WASTEWATER); *SLUDGE; *SLUDGE BULKING; *TECHNOLOGY; *PROCESS CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 172-182P.

ABSTRACT: DESCTIBED IS THE CONTROL OF SLUDGE BULKING. INFORMATION IS PRESENTED FROM EARLY DEVELOPMENTS TO CURRENT PRACTICE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N4

IRIS ACCESSION NUMBER: EW#14568

PUBLICATION DATE: APRIL 87

TITLE: EVALUATION OF ACTIVATED BIOFILTRATION AND ACTIVATED BIOFILTRATION/ACTIVATED SLUDGE TECHNOLOGIES.

PERSONAL AUTHOR: ARORA, MADAN L.; UMPHRES, MARGARET B.

DESCRIPTOR: *DESIGN; *COSTS; ACTIVATED BIOFILTER; ACTIVATED BIOFILTER/ACTIVATED SLUDGE; *BIOFILTRATION; *PERFORMANCE EVALUATION; *FACILITIES; *TECHNOLOGY; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 183-19#P.

ABSTRACT: THIS PAPER PRESENTS THE RESULTS OF A REVIEW AND INVESTIGATION OF THE ACTIVATED BIOFILTER (ABF) AND ACTIVATED BIOFILTER/ACTIVATED SLUDGE (ABF/AS) TECHNOLOGIES AND A REVIEW OF OPERATING RECORDS OF SEVERAL MUNICIPAL PLANTS IN THE U.S. USING THESE TECHNOLOGIES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N4

IRIS ACCESSION NUMBER: EW#14569

TITLE: DESIGN, OPERATIONAL, AND COST CONSIDERATIONS FOR VACUUM ASSISTED SLUDGE DEWATERING BED SYSTEMS.

DESCRIPTOR: *COSTS; *DESIGN; *DEWATERING; *PERFORMANCE EVALUATION; *OPERATIONS (WASTEWATER); *SLUDGE; *WASTEWATER TREATMENT; *VACUUM ASSISTED SLUDGE DEWATERING

DESCRIPTIVE NOTE: 228-234P.

ABSTRACT: THIS ARTICLE SUMMARIZES FINDINGS OF POST-CONSTRUCTION EVALUATIONS OF 12 OPERATIONAL VACUUM ASSISTED SLUDGE DEWATERING BED SYSTEMS LOCATED AT MUNICIPAL WASTEWATER TREATMENT FACILITIES THROUGHOUT THE U.S.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N4

IRIS ACCESSION NUMBER: EW#1457#

PUBLICATION DATE: APRIL 87

TITLE: ELECTRONICS EASES MANAGEMENT OF WASTEWATER COLLECTION SYSTEM.

PERSONAL AUTHOR: KONTOR, JOHN S.; SARVER, JAMES W.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTERIZED SYSTEMS; *MANAGEMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); *VIRGINIA; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 24-26P.

ABSTRACT: DESCRIBED IS AN ELECTRONICS SYSTEM FOR A VIRGINIA COMMUNITY THAT RELAYS DATA FROM WASTEWATER STATIONS TO CUT COSTS AND IMPROVE PERFORMANCE.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N4

IRIS ACCESSION NUMBER: EW#14571

PUBLICATION DATE: APRIL 87

TITLE: MOUNT HOLLY MAKES A BUSINESS OUT OF SLUDGE PROCESSING.

PERSONAL AUTHOR: DUNN, WILLIAM G.; BARIL, DAVID E.

DESCRIPTOR: *ECONOMICS; *FEE SCHEDULES; *INCINERATION; *NEW JERSEY; *OPERATING REVENUES; *SLUDGE PROCESSING; *THERMAL CONDITIONING; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 3#-32P.

ABSTRACT: A NEW JERSEY CITY HAS RETROFITTED A PLANT WITH A NEW THERMAL SLUDGE CONDITIONING UNIT THAT IS USED FOR PROCESSING WASTES FROM OTHER SITES. REVENUES FOR PROCESSING AMOUNT TO OVER $1##,### A MONTH.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N4

IRIS ACCESSION NUMBER: EW#14572

PUBLICATION DATE: APRIL 87

TITLE: KEEPING WASTEWATER SUBMERSIBLES SAFE AND RELIABLE.

DESCRIPTOR: *EQUIPMENT; *INSPECTION; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PUMPS; *SAFETY; *SUBMERSIBLE PUMPS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 32-34P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR KEEPING WASTEWATER SUBMERSIBLE PUMPS SAFE AND RELIABLE.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N4

IRIS ACCESSION NUMBER: EW#14573

PUBLICATION DATE: APR 87

TITLE: HAZARDOUS WASTE TREATMENT TECHNOLOGY: THE CHOICE IS

YOURS.
PERSONAL AUTHOR: RICH, GERALD

DESCRIPTOR: *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *TECHNOLOGY; *WASTE TREATMENT; *WASTE DISPOSAL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 69-78P.

ABSTRACT: DESCRIBED ARE COMMERCIALLY AVAILABLE TREATMENT TECHNOLOGIES FOR TREATING HAZARDOUS WASTES.

AVAILABILITY: POLLUTION ENGINEERING; V19 N4

IRIS ACCESSION NUMBER: EW#14574

PUBLICATION DATE: APR 87

TITLE: ENVIRONMENTAL AUDITING: A BASIC GUIDE.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.; TEN EYCK, JANE

DESCRIPTOR: *AUDITS; *COMPLIANCE; *ENVIRONMENTAL AUDITS; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *MATERIALS HANDLING; *MATERIAL STORAGE; *REGULATIONS; *WASTE STORAGE; *WASTE DISPOSAL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 72-75P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR AN ENVIRONMENTAL AUDIT FOR A FACILITY HANDLING HAZARDOUS WASTES.

AVAILABILITY: POLLUTION ENGINEERING; V19 N4

IRIS ACCESSION NUMBER: EW#14575

PUBLICATION DATE: APR 87

TITLE: MAGNESIUM HYDROXIDE REDUCES SLUDGE/IMPROVES FILTERING.

PERSONAL AUTHOR: TERINGO, JOHN, III

DESCRIPTOR: *ACID WASTE STREAMS; *INDUSTRIAL WASTES; *COSTS; *MAGNESIUM HYDROXIDE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SLUDGE; *SLUDGE DEWATERING; *SLUDGE FILTERING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 78-83P.

ABSTRACT: DISCUSSED IS THE USE OF MAGNESUIM HYDROXIDE FOR TREATING ACID WASTE STREAMS CONTAINING METALS. IN MANY APPLICATIONS, THE REDUCTION OF SLUDGE DISPOSAL COSTS CAN SIGNIFICANTLY OUTWEIGH THE HIGHER CHEMICAL COST.

AVAILABILITY: POLLUTION ENGINEERING; V19 N4

IRIS ACCESSION NUMBER: EW#14576
PUBLICATION DATE: APR 87

TITLE: LIME TREATMENT OF LIQUID WASTE CONTAINING HEAVY METALS.

PERSONAL AUTHOR: DU PONT, ANDRE

DESCRIPTOR: *ACID WASTE STREAMS; *INDUSTRIAL WASTES; *COSTS; *LIME; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 84-88P.

ABSTRACT: DISCUSSED IS LIME TREATMENT OF LIQUID WASTES CONTAINING HEAVY METALS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N4

IRIS ACCESSION NUMBER: EW#14578

PUBLICATION DATE: 86

TITLE: TOXICITY TESTING USING MICROORGANISMS. VOLUME I.

PERSONAL AUTHOR: DUTKA, BERNARD J.; BITTON, GABRIEL (EDS.)

DESCRIPTOR: *CHEMICALS; *MICROORGANISMS; *TESTING; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 176P. $7#.##--U.S., $81.##--OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME ONE IN A SERIES ON TOXICITY TESTING USING MICROORGANISMS. TOPICS INCLUDED ARE: (1) INTRODUCTION AND REVIEW OF MICROBIAL AND BIOCHEMICAL TOXICITY SCREENING PROCEDURES; (2) BACTERIAL GROWTH AND ACTIVITY AS INDICATORS OF TOXICITY; (3) BIOCHEMICAL TESTS FOR TOXICITY SCREENING; (4) BIOLUMINESCENCE ASSAYS; (5) RESPIROMETRIC TECHNIQUES; (6) MICROCALORIMETRIC STUDIES OF MICROBIAL METABOLISM AND INHIBITION; AND (7) BASES FOR IN VITRO TOXICITY EVALUATION.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW#14579

PUBLICATION DATE: 86

TITLE: TOXICITY TESTING USING MICROORGANISMS. VOLUME II.

PERSONAL AUTHOR: DUTKA, BERNARD J.; BITTON, GABRIEL

DESCRIPTOR: *CHEMICALS; *MICROORGANISMS; *SOILS; *TESTING; *TOXIC SUBSTANCES; WASTEWATER

DESCRIPTIVE NOTE: 2##P. PRICE: $81.##-U.S., $93.##-OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME TWO IN A SERIES ON TOXICITY TESTING AND USING MICROORGANISMS. THIS VOLUME CONTAINS THE FOLLOWING TOPICS: (1) INTRODUCTION AND REVIEW OF MICROBIAL AND BIOCHEMICAL TOXICITY SCREENING PROCEDURES; (2) ENVIRONMENTAL FACTORS AFFECTING UTILITY OF MICROBIAL ASSAYS FOR TOXICITY AND MUTAGENICITY OF CHEMICAL POLLUTANTS; (3) TOXICITY SCREENING USING FUNGI AND YEASTS; (4) TOXICITY SCREENING USING PHYTOPLANKTON; (5) TOXICANT SCREENING IN WASTEWATER SYSTEMS; (6) TOXICITY TESTING IN SOIL USING MICROORGANISMS, BIODEGRADATION TESTS; AND (7) U.S. EPA PERSPECTIVE ON ECOTOXICITY TESTING USING MICROORGANISMS.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW#14580

PUBLICATION DATE: 86

TITLE: ENVIRONMENTAL EPIDEMIOLOGY: EPIDEMIOLOGICAL INVESTIGATION OF COMMUNITY ENVIRONMENTAL HEALTH PROBLEMS.

PERSONAL AUTHOR: GOLDSMITH, JOHN R.

DESCRIPTOR: *AIR POLLUTION; *ENVIRONMENT; *ENVIRONMENTAL EPIDEMIOLOGY; *DRINKING WATER; *HEALTH; *PUBLIC HEALTH; *INSTRUCTIONAL MATERIALS; *POSTSECONDARY EDUCATION; *WASTEWATER; *WASTEWATER TREATMENT; *WATER POLLUTION

DESCRIPTIVE NOTE: 28#P. PRICE: $96.##-U.S., $11#.##-OUTSIDE U.S.

ABSTRACT: THIS PUBLICATION PRESENTS INFORMATION ON ENVIRONMENTAL EPIDEMIOLOGY AND THE INVESTIGATION OF COMMUNITY ENVIRONMENTAL PROBLEMS. EXAMPLES FROM A VARIETY OF COUNTRIES ARE INCLUDED ON A RANGE OF TOPICS.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW#14581

PUBLICATION DATE: 85

TITLE: CARCINOGENS AND MUTAGENS IN THE ENVIRONMENT. VOLUME IV, THE WORKPLACE: MONITORING AND PREVENTION OF OCCUPATIONAL HAZARDS.

PERSONAL AUTHOR: STICH, HANS F.

DESCRIPTOR: ASBESTOS; CHEMICALS; BENZENE; CHLOROFORM; CIGARETTES; *CARCINOGENS; *MUTAGENS; RADIATION; *OCCUPATIONAL HEALTH; VINYL CHLORIDE; *RISK ASSESSMENT; *POLICIES; *ACCIDENT PREVENTION; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 216P. PRICE: $85.##-U.S., $98.##-OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME IV IN A SERIES ON CARCINOGENS AND MUTAGENS IN THE ENVIRONMENT. THIS VOLUME FOCUSES ON

MONITORING AND PREVENTING OCCUPATIONAL HAZARDS.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW#14582

PUBLICATION DATE: 86

TITLE: WATERBORNE DISEASES IN THE UNITED STATES.

PERSONAL AUTHOR: CRAUN, GUNTHER F.

DESCRIPTOR: *DISEASE PREVENTION; *DISEASES; *DRINKING WATER; *REGULATIONS; *PUBLIC HEALTH; *WATERBORNE DISEASES; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 3#4P. PRICE: $117.##-U.S., $135.##-OUTSIDE U.S.

ABSTRACT: WATER-RELATED ILLNESS IS EXAMINED WITH EMPHASIS ON TRANSMISSION OF INFECTIOUS DISEASES THROUGH CONTAMINATED DRINKING WATER SUPPLIES, AND DEFICIENCIES IN WATER SUPPLY SYSTEMS WHICH ALLOW WATER-BORNE OUTBREAKS. IMPORTANT ETIOLOGIC AGENTS, SURVEILLANCE ACTIVITIES, REGULATIONS, PREVENTATIVE MEASURES, PROCEDURES FOR INVESTIGATING DISEASE OUTBREAKS, AND LABORATORY METHODS FOR IDENTIFYING PATHOGENS ARE DISCUSSED. DISEASES WHICH OCCUR BY INGESTION, BATHING OR WADING, AND INHALATION ARE ALL CONSIDERED.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW#14583

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT. VOL. I.: LAW OF TOXICS AND TOXIC SUBSTANCES.

PERSONAL AUTHOR: DOMINGUEZ, GEORGE S.; BARTLETT, KENNETH G.

DESCRIPTOR: *COMPLIANCE; *HAZARDOUS WASTES; *LAWS; *LEGISLATION; *MANAGEMENT; *LIABILITIES; *TOXIC SUBSTANCES; *ENFORCEMENT

DESCRIPTIVE NOTE: 272P. $88.##--U.S., $1#1.##--OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME ONE IN A SERIES ON HAZARDOUS WASTE MANAGEMENT. VOLUME ONE CONSIDERS LAW OF TOXICS AND TOXIC SUBSTANCES. INFORMATION IS INCLUDED ON SPECIFIC REQUIREMENTS OF VARIOUS LAWS, WHO IS RESPONSIBLE FOR COVERING COSTS, THE RIGHTS OF CORPORATIONS IN DEALING WITH ENFORCEMENT AGENCIES, AND LIABILITIES AND PENALTIES.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW#14584

TITLE: TRICKLE IRRIGATION FOR CROP PRODUCTION.

DESCRIPTOR: *AGRICULTURE; *DESIGN; *IRRIGATION; *OPERATIONS; *MAINTENANCE; *MANAGEMENT; *PERFORMANCE EVALUATION; *TRICKLE IRRIGATION; *WATER CONSERVATION; *WATER USE

DESCRIPTIVE NOTE: 366P. MEMBER--$48.5#, LIST--$58.##

ABSTRACT: THIS MULTI-PURPOSE TEXTBOOK/HANDBOOK FEATURES CURRENT INFORMATION ON THE DESIGN, OPERATION, MAINTENANCE AND MANAGEMENT OF TRICKLE SYSTEMS. TOPICS INCLUDE: (1) ADVANTAGES AND DISADVANTAGES OF TRICKLE IRRIGATION; (2) PERFORMANCE EFFECTS FROM VARIABLES IN SYSTEMS PRODUCTION; (3) SALINITY AND HYDRAULIC CONDUCTIVITY INTERACTIONS WITH VARIOUS WATER AND SOIL TYPES; (4) OPTIMAL CONDITIONS FOR MICROBIAL GROWTH; (5) WATER REQUIREMENTS OF SPECIFIC CROPS AT VARIOUS STAGES OF GROWTH; AND (6) METHODS OF EFFECTIVE ANALYSIS OF A FIELD SYSTEM AND PREVENTIVE MAINTENANCE.

AVAILABILITY: AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS, DEPT. 16, 295# NILES RD., ST. JOSEPH, MI 49#85-9659

IRIS ACCESSION NUMBER: EW#14585

TITLE: LEGISLATIVE SOURCEBOOK ON TOXICS.

DESCRIPTOR: *ENVIRONMENTAL IMPACT; *GROUNDWATER; *HEALTH; *RECYCLING; *TOXIC SUBSTANCES; *TRANSPORTATION; *STORAGE

DESCRIPTIVE NOTE: 25#P. $14.95

ABSTRACT: TWO PUBLICATIONS RECENTLY RELEASED BY THE CONFERENCE ON ALTERNATIVE STATE AND LOCAL POLICIES PROVIDE A COMPILATION OF BILLS AND LAWS ENACTED IN THE STATE LEGISLATURES IN THE ENVIRONMENTAL AREA. INFORMATION ON BILL SPONSORS, REFERENCE NUMBERS AND CONTACTS ARE ALSO PROVIDED FOR EASY FOLLOWUP. ISSUES ADDRESSED IN THIS BOOK INCLUDE ABANDONED DUMPS AND FACILITIES, CONSUMER PROTECTION, GROUND WATER, OCCUPATIONAL HEALTH AND COMPENSATION, SOURCE REDUCTION AND RECYCLING, AND TRANSPORTATION.

AVAILABILITY: CONFERENCE, 2### FLORIDA AVE., N.W., ROOM 4#4 PC3, WASHINGTON, D.C. 2####9

IRIS ACCESSION NUMBER: EW#14586

TITLE: THE LEGISLATIVE SOURCEBOOK ON THE ENVIRONMENT.

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *LEGISLATION; PLANNING; RECYCLING; *TOXIC SUBSTANCES; PUBLIC HEALTH; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 3##P. $14.95

ABSTRACT: TWO PUBLICATIONS RECENTLY RELEASED BY THE CONFERENCE ON ALTERNATIVE STATE AND LOCAL POLICIES PROVIDE A COMPILATION OF BILLS AND LAWS ENACTED IN THE STATE LEGISLATURES IN THE ENVIRONMENTAL AREA. INFORMATION ON BILL SPONSORS, REFERENCE NUMBERS AND CONTACTS ARE ALSO PROVIDED FOR EASY FOLLOWUP. THE "LEGISLATIVE SOURCEBOOK ON THE ENVIRONMENT" COVERS SUCH TOPICS AS AIR, RIVERS AND STREAMS, GROUND WATER, WETLANDS, OCEANS AND COASTS, PRIVATE FORESTRY, FARMLAND AND OPEN SPACE, NON-GAME WILDLIFE AND ENDANGERED SPECIES, RECYCLING, TOXICS, THE WORKPLACE, NUCLEAR ENERGY AND RADIOACTIVE WASTE AND PLNNNING.

AVAILABILITY: CONFERENCE, 2### FLORIDA AVE., N.W., ROOM 4#4 PC 3, WASHINGTON, D.C. 2####9

IRIS ACCESSION NUMBER: EW#14587

PUBLICATION DATE: 86

TITLE: TOXICITY OF PESTICIDES TO FISH. VOLUME I.

PERSONAL AUTHOR: MURTY, A.S.

DESCRIPTOR: *ENVIRONMENT; *FISH; *ENVIRONMENTAL IMPACT; *PESTICIDES; *TOXICITY; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 192P. $96.##, $11#.##

ABSTRACT: THIS IS THE FIRST MAJOR ATTEMPT TO REVIEW COMPREHENSIVELY ALL AVAILABLE INFORMATION ON THE ENVIRONMENTAL FATE OF PESTICIDES AND THEIR ACUTE AND CHRONIC EFFECTS TO FISH. THE VOLUMES INCORPORATE OVER 17## REFERENCES PUBLISHED FROM 1944 TO PRESENT. TOPICS INCLUDED IN VOLUME ONE ARE: (1) PESTICIDES IN THE ENVIRONMENT; (2) PESTICIDE RESIDUES IN FISH; (3) UPTAKE AND DEPURATION OF PESTICIDE RESIDUES BY FISH; AND (4) TOXICITY TEST AND TEST METHODOLOGY.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW#14588

PUBLICATION DATE: 86

TITLE: TOXICITY OF PESTICIDES TO FISH. VOL. II.

PERSONAL AUTHOR: MURTY, A.S.

DESCRIPTOR: *FISH; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *PESTICIDES; *TOXIC SUBSTANCES; *TOXICITY

DESCRIPTIVE NOTE: 16#P. $72.##--U.S., $83.##--OUTSIDE U.S.

ABSTRACT: THIS IS THE FIRST MAJOR ATTEMPT TO REVIEW COMPREHENSIVELY ALL AVAILABLE INFORMATION ON THE ENVIRONMENTAL FATE OF PESTICIDES AND THEIR ACUTE AND CHRONIC EFFECTS TO FISH. THE VOLUMES INCORPORATE OVER 17## REFERENCES PUBLISHED FROM 1944 TO PRESENT. TOPICS INCLUDED IN VOLUME TWO ARE: (1) TOXICITY OF INDIVIDUAL COMPOUNDS; (2) SAFE CONCENTRATIONS, AND TOXICITY TO DIFFERENT AGE GROUPS; (3) INFLUENCE OF ENVIRONMENTAL CONDITIONS ON THE TOXICITY OF PESTICIDES TO FISH; (4)TOXICITY OF FORMULATIONS, ISOMERS,

AND DEGRADATION PRODUCTS; (5) JOINT ACTION OF PESTICIDE MIXTURE; (6) INSECTICIDE RESISTANCE IN FISH; (7) POLYCHLORINATED BIPHENYLS AND RELATED COMPOUNDS; AND (8) ENVIRONMENTAL HAZARD EVALUATION AND PREDICTION.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW#14589

PUBLICATION DATE: JULY 86

TITLE: RESOURCES AND WASTES.

DESCRIPTOR: *ECONOMICS; *CONSERVATION EDUCATION; *CONSUMERS; *INSTRUCTIONAL MATERIALS; *LEGISLATION; *RESOURCE RECOVERY; *MANAGEMENT; *SECONDARY SCHOOL EDUCATION; *WASTES; *WASTE REDUCTION; *CANADA

DESCRIPTIVE NOTE: 6#P. $1#.##

ABSTRACT: THIS PACKAGE IS DESIGNED FOR USE IN SCHOOLS AT GRADES 8-12. THE PACKAGE CONTAINS EIGHT MODULES. EACH MODULE CONSISTS OF A TEACHER'S PAGE AS WELL AS INFORMATION, REFERENCES, AND A NUMBER OF SUGGESTED QUESTIONS, PROJECTS, AND ACTIVITIES. MODULE TITLES INCLUDE THE FOLLOWING: (1) RESOURCES AND WASTES; (2) WASTE STREAMS; (3) WASTE MANAGEMENT; (4) WASTES COSTS; (5) RESOURCE RECOVERY; (6) ROLES, RESPONSIBILITIES, AND LEGISLATION; (7) CONSUMER CHOICES; AND (8) GETTING INVOLVED.

AVAILABILITY: MINISTRY OF ENVIRONMENT & PARKS, INFORMATION SERVICES BRANCH, 81# BLANSHARD ST., VICTORIA, B.C. V8W3E1

IRIS ACCESSION NUMBER: EW#14590

PUBLICATION DATE: 86

TITLE: TRACKING TOXIC WASTES IN NEW JERSEY. A GUIDE TO FEDERAL AND STATE INFORMATION SOURCES ON CHEMICAL WASTES FROM INDUSTRIAL PLANTS.

PERSONAL AUTHOR: MILLER, CATHERINE G.; NAVIASKY, LAURENCE M.

DESCRIPTOR: *CHEMICALS; *GUIDES; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *INFORMATION SOURCES; *NEW JERSEY; *TOXIC SUBSTANCES; *TOXIC WASTES; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 88P. $15.##

ABSTRACT: THIS GUIDE IS DESIGNED TO HELP THOSE CONCERNED ABOUT THE DISCHARGES OF HAZARDOUS WASTES BY INDUSTRIAL PLANTS IN NEW JERSEY WHICH ARE RESPONSIBLE FOR GENERATING OVER 12 MILLION TONS A YEAR OF SUCH WASTES. THE GUIDE LISTS ADDRESSES OF MORE THAN TWO DOZEN FEDERAL AND STATE GOVERNMENT OFFICES, AND INCLUDES EXAMPLES OF FORMS TO BE LOCATED AND DIRECTIONS FOR SECURING ACCESS TO INFORMATION BEING SOUGHT.

AVAILABILITY: INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY 1#157-#323

IRIS ACCESSION NUMBER: EW#14591

PUBLICATION DATE: 86

TITLE: VADOSE ZONE MODELING OF ORGANIC POLLUTANTS.

PERSONAL AUTHOR: HERN, STEPHEN C.; MELANCON, SUSAN M.

DESCRIPTOR: *CHEMICALS; *GROUNDWATER; *MODELING; *ORGANIC POLLUTANTS; *VADOSE ZONE

DESCRIPTIVE NOTE: 3##P. $49.95

ABSTRACT: THIS BOOK COVERS THE USES AND LIMITATIONS OF VADOSE ZONE MODELS AND INCLUDES GUIDELINES FOR FIELD COLLECTION AND DATA REQUIRED FOR CALIBRATION AND EVALUATION. THIS BOOK IS ORGANIZED INTO TWO MAJOR SECTIONS: OVERVIEW OF CHEMICAL FATE AND TRANSPORT PROCESSES IN THE VADOSE ZONE, AND CHEMICAL PROCESSES, PARAMETER ESTIMATION, AND VARIABILITY IN THE VADOSE ZONE.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14592

TITLE: GROUND WATER QUALITY PROTECTION.

PERSONAL AUTHOR: CANTER, L.W.

DESCRIPTOR: *GROUNDWATER; *MONITORING; *WATER TREATMENT; *WATER POLLUTION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 45#P. $49.95

ABSTRACT: CONSIDERED BY THE EPA TO BE ONE OF THE MAJOR ENVIRONMENTAL ISSUES OF THE 198#'S GROUNDWATER SUPPLIES A LARGE AMOUNT OF THE WATER WE USE. CONTENTS OF THIS BOOK INCLUDE: (1) GROUNDWATER: AN IMPORTANT RESOURCE; (2) GROUNDWATER HYDROLOGY; (3) GROUNDWATER INFORMATION SOURCES; (4) GROUNDWATER POLLUTION SOURCES; (5) POLLUTANT TRANSPORT AND FATE IN THE SUBSURFACE ENVIRONMENT: ABIOTIC AND BIOTIC PROCESSES; (6) POLLUTANT TRANSPORT AND FATE IN THE SUBSURFACE ENVIRONMENT: HYDRODYNAMIC PROCESSES AND FLOW AND SOLUTE MODELING; (7) POLLUTION SOURCE EVALUATION; (8) EMPIRICAL ASSESSMENT METHODS; (9) GROUNDWATER MONITORING PLANNING; (1#) GROUNDWATER SAMPLING AND ANALYSIS; (11) GROUNDWATER QUALITY MANAGEMENT; AND (12) GROUNDWATER CLEANUP.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14593
PUBLICATION DATE: 85

TITLE: GROUND WATER POLLUTION CONTROL.

PERSONAL AUTHOR: CANTER, LARRY W.; KNOX, ROBERT C.

DESCRIPTOR: *AQUIFER RESTORATION; *PUBLIC PARTICIPATION; *GROUNDWATER; *TECHNOLOGY; *RISK ASSESSMENT; *WATER POLLUTION CONTROL; *WATER TREATMENT

DESCRIPTIVE NOTE: 529P. $49.95

ABSTRACT: THIS BOOK COVERS TECHNOLOGIES FOR GROUND WATER POLLUTION IN PART ONE AND DEALS IN DEPTH WITH AQUIFER RESTORATION DECISION-MAKING IN PART TWO, WHILE PART THREE GIVES DETAILED ABSTRACTS OF 225 CAREFULLY SELECTED REFERENCES AND AN EXTENSIVE RANGE OF CASE STUDIES. CONTENTS INCLUDE: (1) GROUND WATER TREATMENT, METHODOLOGIES; (2) IN-SITU TECHNOLOGIES; (3) AQUIFER RESTORATION; (4) PHYSICAL CONTROL MEASURES; (5) APPLICATIONS AND CASE STUDIES; (6) DECISION-MAKING TECHNIQUES; (7) PUBLIC PARTICIPATION IN AQUIFER RESTORATION DECISION-MAKING; AND (8) RISK ASSESSMENT.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14594

TITLE: AGRICULTURAL WASTE UTILIZATION AND MANAGEMENT.

DESCRIPTOR: *AGRICULTURE; *CONFERENCE PROCEEDINGS; *INDUSTRIAL WASTES; *ENERGY RECOVERY; *RECYCLING; *WASTES; *WASTE DISPOSAL; *WASTE STORAGE; *WASTE TRANSPORTATION; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 775P. MEMBER--$23.6#, LIST--$29.5#

ABSTRACT: THIS PROCEEDINGS FROM THE DECEMBER 1985 FIFTH INTERNATIONAL SYMPOSIUM ON AGRICULTURAL WASTES COVERS A BROAD SCOPE OF TOPICS INCLUDING LIQUID MANURE STORAGE AND TRANSPORTATION, ENERGY RECOVERY FROM WASTES, DIGESTER TYPES AND DESIGNS, RECYCLING FOR FEED, FUEL AND FERTILIZER, LAND APPLICATIONS AND ODOR CONTROL.

AVAILABILITY: AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS, DEPT. 16, 295# NILES RD., ST. JOSEPH, MI 49#85-9659

IRIS ACCESSION NUMBER: EW#14595

PUBLICATION DATE: 86

TITLE: POLLUTION CONTROL FOR THE PETROCHEMICALS INDUSTRY.

PERSONAL AUTHOR: BORUP, BRETT; MIDDLEBROOKS, E. JOE

DESCRIPTOR: *CHEMICALS; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *PETROCHEMICALS; *POLLUTION CONTROL; *WASTE DISPOSAL; *WASTE TREATMENT; *WATER POLLUTION CONTROL
DESCRIPTIVE NOTE: 2## EST.P. $34.95

ABSTRACT: THIS BOOK IS A CONCISE PRESENTATION OF ALL ASPECTS OF POLLUTION CONTROL IN THE PETROCHEMICALS INDUSTRY. SOLUTIONS TO WATER, AIR, SOLID AND HAZARDOUS WASTES PROBLEMS ARE SUMMARIZED IN THIS VALUABLE WORK. ENERGY USE AND CONSERVATION ARE ALSO DISCUSSED. CONCERNS AND PRECAUTIONS NECESSARY FOR DEVELOPMENT OF PETROCHEMICALS PLANTS IN DEVELOPING COUNTRIES ARE AN ADDED FEATURE.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14596

PUBLICATION DATE: JULY 86

TITLE: CHLORINATED DIOXINS AND DIBENZOFURANS IN PERSPECTIVE.

PERSONAL AUTHOR: RAPPE, CHRISTOFFER

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICALS; *CHLORINATED DIOXINS; *DIBENZOFURANS; *CONTAMINATION; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 55#P. $59.95

ABSTRACT: THIS BOOK PROVIDES HUMAN EXPOSURE DATA AND THE ANALYTICAL TECHNIQUES DEVELOPED IN THE CONTINUING EFFORT AGAINST CONTAMINATION BY CHLORINATED DIOXINS AND DIBENZOFURANS. INFORMATION INCLUDES THE FOLLOWING TOPICS: (1) HUMAN EXPOSURE: DISTRIBUTION AND ANALYSIS; (2) INCINERATION EMISSIONS (AND PCB'S); (3) SOIL CONTAMINATION (FATE--DESTRUCTION--SAMPLING--ANALYSIS); (4) BIOASSAYS; (5) ANALYTICAL TECHNIQUES; AND (6) DESTRUCTION (REMOVAL--RECLAMATION--DISPOSAL--SYNTHESIS--STANDARDS--PREPARATION).

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14597

PUBLICATION DATE: OCT. 86

TITLE: ANALYTICAL ASPECTS OF OZONE TREATMENT FOR WATER AND WASTEWATER.

PERSONAL AUTHOR: RICE, R.G.; AND OTHERS

DESCRIPTOR: OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *OZONE; *MONITORING; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 38#P. $49.95

ABSTRACT: BECAUSE OZONE IS A GAS AT NORMAL TEMPERATURES AND PRESSURES, AND BECAUSE OF ITS BRIEF HALFLIFE, ANALYSES FOR OZONE AND CONTROL OF OZONE GENERATION AND REACTIONS ARE

UNIQUE TO THIS PARTICULAR ADVANCING TECHNOLOGY. THIS BOOK IS ORGANIZED INTO FIVE SECTIONS: (1) FUNDAMENTAL PARAMETERS; (2) ANALYSIS OF OZONE IN AQUEOUS SOLUTION; (3) ANALYSIS OF OZONE IN GASEOUS PHASE; (4) INSTRUMENTAL METHODS OF ANALYSIS AND MONITORING OF OZONE; AND (5) AUTOMATED PROCEDURES FOR CONTROLLING OZONATION PROCESSES.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14598

PUBLICATION DATE: 87

TITLE: DESIGN AND USE OF PRESSURE SEWER SYSTEMS.

PERSONAL AUTHOR: THRASHER, D.

DESCRIPTOR: *COSTS; *DESIGN; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PRESSURE SEWER SYSTEMS; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 124P. $34.95

ABSTRACT: THIS BOOK PROVIDES INFORMATION ON THE DESIGN, OPERATION AND MAINTENANCE OF PRESSURE SEWERS. ECONOMIC ADVANTAGES OF THE PRESSURE SEWER SYSTEM ALLOW DEVELOPMENT OF PREVIOUSLY UNDEVELOPED AREAS AND MAKE CENTRAL SEWER EXTENSION MORE AFFORDABLE FOR BOTH MUNICIPALITIES AND DEVELOPERS. PRESSURE SYSTEMS PROVIDE THE ADVANTAGE OF MAKING CENTRAL SEWERS AVAILABLE IN AREAS WHERE ON-SITE DISPOSAL HAS PROVEN OR MAY PROVE TO BE UNDESIRABLE.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14599

PUBLICATION DATE: 85

TITLE: PETROLEUM SPILLS IN THE MARINE ENVIRONMENT. THE CHEMISTRY AND FORMATION OF WATER-IN-OIL EMULSIONS AND TAR BALLS.

PERSONAL AUTHOR: PAYNE, J.R.; PHILLIPS, C.R.

DESCRIPTOR: *ENVIRONMENT; *MARINE ENVIRONMENT; *OIL; *OIL SPILLS; *PETROLEUM; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 158P. $34.95

ABSTRACT: IMPORTANT RESEARCH COMPLETED BETWEEN 1981 AND MAY 1985 IS COVERED AND INCLUDES: REVIEWS OF RECENTLY PUBLISHED STUDIES, SITINGS AND INVESTIGATIONS AT SPILLS-OF-OPPORTUNITY AS WELL AS RESULTS OF RECENT ARCTIC AND SUB-ARCTIC OIL WEATHERING EXPERIMENTS AND OBSERVATIONS ON THE BEHAVIOR OF CRUDE OIL IN THE PRESENCE OF ICE.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#146##

PUBLICATION DATE: 86

TITLE: GARBAGE BURNING: LESSONS FROM EUROPE. CONCENSUS AND CONTROVERSY IN FOUR EUROPEAN STATES.

PERSONAL AUTHOR: HERSHKOWITZ, ALLEN

DESCRIPTOR: *CASE STUDIES; *GARBAGE; *EUROPE; *INCINERATION; *SOLID WASTES; *WASTE DISPOSAL; *POLICIES; *REGULATIONS; *AIR POLLUTION CONTROL; *PUBLIC HEALTH

DESCRIPTIVE NOTE: 53P. $7.5#

ABSTRACT: THIS REPORT ON THE POLICIES AND REGULATIONS AT FIVE GARBAGE-BURNING PLANTS IN NORWAY, SWEDEN, WEST GERMANY AND SWITZERLAND IDENTIFIES MANY PRACTICES IN WORKER TRAINING AND IN MONITORING AND CONTROLLING AIR POLLUTANTS THAT ARE CONSIDERED BY SOME TO BE SUPERIOR TO SUCH PRACTICES IN THE U.S. BASED ON INTERVIEWS WITH MORE THAN 2# AUTHORITIES, THE REPORT ALSO REVEALS DIFFERING OPINIONS IN EUROPE CONCERNING THE HEALTH RISKS FROM DIOXIN EMISSIONS.

AVAILABILITY: INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY 1#157-#323

IRIS ACCESSION NUMBER: EW#146#1

PUBLICATION DATE: 75

TITLE: METHODOLOGY FOR ANALYTICAL TOXICOLOGY. VOL. I.

PERSONAL AUTHOR: SUNSHINE, ERVING

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRUGS; *METALS; *HANDBOOKS; *ORGANIC COMPOUNDS; *TOXIC SUBSTANCES; *TOXICOLOGY

DESCRIPTIVE NOTE: 478P. U.S.--$8#.##, OUTSIDE U.S.--$ 92.##

ABSTRACT: THIS IS VOLUME I OF A THREE VOLUME SERIES ON METHODOLOGY FOR ANALYTICAL TOXICOLOGY. THIS VOLUME CONTAINS INFORMATION ON OVER 1## SUBSTANCES INCLUDING THERAPEUTIC AND DRUGS OF ABUSE, HEAVY METALS, AND ORGANIC VOLATILE SUBSTANCES. FOR EACH SUBSTANCE TWO TO THREE PROCEDURES ARE DESCRIBED IN DETAIL. THE DESCRIPTION INCLUDES: (1) PRINCIPLE; (2) APPARATUS; (3) REAGENTS; (4) PROCEDURE; (5) CALCULATIONS; (6) INTERPRETATION; (7) ACCURACY AND PRECISION; AND (8) INTERFERING SUBSTANCES.

AVAILABILITY: CRC PRESS, INC., 2### CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW#146#2

PUBLICATION DATE: 82

TITLE: METHODOLOGY FOR ANALYTICAL TOXICOLOGY. VOL.II.

PERSONAL AUTHOR: SUNSHINE, ERVING

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICALS; *DRUGS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURE; *POSTSECONDARY EDUCATION; *TOXICOLOGY

DESCRIPTIVE NOTE: 272P. $59.50--U.S., $68.00--OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME TWO OF A THREE VOLUME SERIES ON METHODS OF ANALYTICAL TOXICOLOGY. APPROXIMATELY 300 SUBSTANCES ARE FEATURED INCLUDING VOLATILES, NEUTRAL AND ACIDIC DRUGS, ANTIBIOTICS, ANTICONVULSANTS, ANTIDEPRESSANTS, AND DRUGS OF ABUSE. FOR EACH SUBSTANCE 1 OR 2 PROCEDURES ARE DESCRIBED. THE FOLLOWING ARE GIVEN FOR EACH: PRINCIPLE, APPARATUS, OPERATING CONDITIONS, REAGENTS, PROCEDURE, ACCURACY AND PRECISION, INTERPRETATION, STABILITY AND INTERFERENCES.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW014603

PUBLICATION DATE: 85

TITLE: METHODOLOGY FOR ANALYTICAL TOXICOLOGY. VOL.III.

PERSONAL AUTHOR: SUNSHINE, ERVING

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANALYTICAL TOXICOLOGY; *CHEMICALS; *LABORATORY PROCEDURES; *ORGANIC COMPOUNDS; *TOXICOLOGY

DESCRIPTIVE NOTE: 312P. $150.00--U.S., $175.00--OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME III OF A THREE VOLUME SERIES ON METHODS FOR ANALYTICAL TOXICOLOGY. VOLUME III PRESENTS A VARIETY OF METHODS FOR ISOLATING CHEMICALS AND ANALYZING THE CHEMICALS THAT ARE OBTAINED.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW014604

PUBLICATION DATE: 83

TITLE: DESTRUCTION AND DISPOSAL OF PCB'S BY THERMAL AND NON-THERMAL METHODS. POLLUTION TECHNOLOGY REVIEW NO. 97.

PERSONAL AUTHOR: ACKERMAN, D.G.; AND OTHERS

DESCRIPTOR: *INCINERATION; *NON-THERMAL METHODS; *PCB'S; *PERFORMANCE EVALUATION; *WASTE DISPOSAL; *THERMAL METHODS

DESCRIPTIVE NOTE: 417P. $48.00

ABSTRACT: THIS BOOK PRESENTS THERMAL AND NON-THERMAL METHODS FOR THE DESTRUCTION AND DISPOSAL OF POLYCHLORINATED

BIPHENYLS (PCB'S). THE MATERIAL IS PRESENTED IN TWO PARTS. PART I DESCRIBES FUNDAMENTAL PROCESSES OF COMBUSTION, THERMAL DESTRUCTION SYSTEMS, SAMPLING AND ANALYSIS METHODOLOGY, AND FLAME CHEMISTRY RELATIVE TO PCB INCINERATION. PART II PROVIDES DESCRIPTIONS AND EVALUATES VARIOUS ALTERNATIVE CHEMICAL, PHYSICAL, AND BIOLOGICAL PCB REMOVAL AND/OR DESTRUCTION TECHNOLOGIES, INCLUDING CARBON ADSORPTION, CATALYTIC DEHYDROCHLORINATION, CHLORINOLYSIS, SODIUM BASED DECHLORINATIONS, PHOTOLYTIC AND MICROWAVE PLASMA DESTRUCTIONS, CATALYZED WET AIR OXIDATION, AND ACTIVATED SLUDGE, TRICKLING FILTER AND SPECIAL BACTERIAL METHODS.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW014605

PUBLICATION DATE: 86

TITLE: HAZARDOUS CHEMICALS DATA BOOK. SECOND EDITION.

PERSONAL AUTHOR: WEISS, G.

DESCRIPTOR: *CHEMICAL REACTIVITY; *CHEMICALS; *FIRE HAZARDS; *HAZARDOUS MATERIALS; *HEALTH HAZARDS; *POLLUTION EFFECTS; *SHIPPING INFORMATION; *TREATMENT; *HAZARD CLASSIFICATION; *PHYSICAL PROPERTIES; *WATER POLLUTION; *CHEMICAL PROPERTIES

DESCRIPTIVE NOTE: 1069P. $98.00

ABSTRACT: THIS SECOND EDITION OF THE HAZARDOUS CHEMICALS DATA BOOK SUPPLIES INFORMATION ON MORE THAN 1000 OF THE MOST IMPORTANT HAZARDOUS CHEMICALS. THE COMPILATION OF HAZARDOUS CHEMICALS IS PRESENTED IN A CLEAR, CONCISE, EASY-TO-LOCATE FORMAT. A LARGE QUANTITY OF PERTINENT DATA IS GIVEN FOR EACH OF THE CHEMICALS, WHICH ARE ARRANGED ALPHABETICALLY.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW014606

PUBLICATION DATE: 85

TITLE: SAVING WATER FROM THE GROUND UP, A PILOT STUDY OF IRRIGATION SCHEDULING ON FOUR CALIFORNIA FIELDS.

PERSONAL AUTHOR: RICHARDSON, GAIL; MUELLER-BEILSCHMIDT, PETER

DESCRIPTOR: *CALIFORNIA; *CONSERVATION; *AGRICULTURE; *ENERGY USE; *IRRIGATION; *WATER CONSERVATION; *WATER USE; WATER SUPPLY

DESCRIPTIVE NOTE: 60P. $1.50

ABSTRACT: THIS BOOKLET DOCUMENTS THE RESULTS OF FOUR EXPERIMENTS ON COMMERCIAL CALIFORNIA FIELDS SHOWING HOW

FARMERS CAN USE LOW-COST GYPSUM BLOCKS TO MONITOR SOIL WETNESS, PLAN IRRIGATION AND CUT THEIR WATER AND ENERGY USE BY 15 PERCENT OR MORE.

AVAILABILITY: INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY 10157-0323

IRIS ACCESSION NUMBER: EW00146008

PUBLICATION DATE: 85

TITLE: TRACING A RIVER'S TOXIC POLLUTION. A CASE STUDY OF THE HUDSON.

PERSONAL AUTHOR: ROHMANN, STEVEN O.; AND OTHERS

DESCRIPTOR: *CHEMICALS; *HUDSON RIVER; *INDUSTRIAL WASTES; *RIVERS; *TOXIC SUBSTANCES; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 150P. $12.00

ABSTRACT: THIS REPORT PROVIDES AN INVENTORY OF TOXIC DISCHARGES INTO AN ENTIRE U.S. WATERWAY. IT IDENTIFIES 185 INDUSTRIAL AND SEWAGE TREATMENT PLANTS DISCHARGING MAJOR TOXIC CHEMICALS INTO THE HUDSON RIVER AND ITS TRIBUTARIES, WHOSE WATERS PROVIDE RECREATION FOR MILLIONS AND DRINKING WATER FOR NEARLY 200,000. THIRTEEN CHARTS AND 33 MAPS SHOW THE QUANTITIES AND LOCATIONS OF 26 CHEMICAL DISCHARGES.

AVAILABILITY: INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY, N.Y. 10016

IRIS ACCESSION NUMBER: EW00146009

PUBLICATION DATE: DEC. 86

TITLE: DRINKING WATER: A COMMUNITY ACTION GUIDE.

PERSONAL AUTHOR: BOYD, SUSAN; AND OTHERS

DESCRIPTOR: *CITIZEN PARTICIPATION; *COMMUNITY ACTION; *DRINKING WATER; *DISEASE CONTROL; *PUBLIC HEALTH; *WATER POLLUTION; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 35P.

ABSTRACT: WHILE MUCH OF THE DRINKING WATER IN THE U.S. IS SAFE FOR CONSUMPTION, PROTECTING ITS QUALITY AND ASSURING ITS AVAILABILITY ARE BECOMING INCREASINGLY DIFFICULT. THIS BOOKLET IS WRITTEN FOR INDIVIDUALS AND GROUPS WHO ARE CONCERNED ABOUT THE DRINKING WATER IN THEIR COMMUNITIES. IT PROVIDES A GENERAL INTRODUCTION TO THE COMPLEX ISSUES OF WATER MANAGEMENT AND PROTECTION WITH GUIDELINES FOR PUBLIC PARTICIPATION. SPECIFIC SECTIONS OF THE DOCUMENT ADDRESS: (1) WATER QUALITY STANDARDS AND SOURCES OF CONTAMINATION; (2) ADVERSE HEALTH EFFECTS OF VARIOUS POLLUTANTS; (3) HOW DRINKING WATER STANDARDS ARE SET; (4) DRINKING WATER TREATMENT; (5) SUPPLY AND CONSERVATION; (6) WATER MANAGEMENT PRACTICES; (7) FEDERAL LEGISLATION; (8) INNOVATIVE STATE PROGRAMS (FROM FLORIDA, NEW JERSEY, MINNESOTA, MASSACHUSETTS, WISCONSIN, AND CALIFORNIA); (9) GUIDELINES FOR COMMUNITY ACTION; (10) WATER TESTING; (11) HOME TREATMENT; AND (12) BOTTLED WATER. A COMPREHENSIVE LIST OF REFERENCES ON EACH TOPIC IS INCLUDED.

AVAILABILITY: CONCERN, INC., 1794 COLUMBIA RD., N.W., WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW00146100

PUBLICATION DATE: 86

TITLE: GROUND WATER QUALITY PROTECTION. STATE AND LOCAL STRATEGIES.

DESCRIPTOR: *CASE STUDIES; *GROUNDWATER; *LEGISLATION; *MANAGEMENT; *WASTEWATER; *WATER QUALITY; *WATER RESOURCES; *REGULATION; *STATE ROLE; *FEDERAL ROLE; *LOCAL ROLE; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 322P. $24.50 15-24 COPIES: 15% DISCOUNT, 25-499 COPIES: 25% DISCOUNT

ABSTRACT: THIS DOCUMENT EXAMINES REPRESENTATIVE PROGRAMS FOR DEALING WITH GROUND WATER CONTAMINATION. SECTIONS INCLUDE: (1) INTRODUCTION AND BACKGROUND; (2) SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS; (3) SUMMARIES OF THE STATE AND LOCAL GROUND WATER PROGRAMS REVIEWED; AND (4) STATE AND LOCAL STRATEGIES TO PROTECT GROUND WATER. AN EXTENSIVE BIBLIOGRAPHY, REGULATORY INFORMATION, AND LEGISLATION ARE INCLUDED IN THE APPENDIXES.

AVAILABILITY: NATIONAL ACADEMY PRESS, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418

IRIS ACCESSION NUMBER: EW00146110

PUBLICATION DATE: 86

TITLE: INFORMATION NEEDS FOR GROUNDWATER POLLUTION CONTROL.

PERSONAL AUTHOR: HAIMES, YACOV Y.

DESCRIPTOR: DETECTION; *GROUNDWATER; CONTAINMENT; *INFORMATION NEEDS; MONITORING; MANAGEMENT; *POLLUTION CONTROL; POLLUTION PREVENTION; OPERATIONS; RESEARCH; TRAINING

DESCRIPTIVE NOTE: 190-198P.

ABSTRACT: IN AN EFFORT TO UNDERSTAND THE INFORMATION NEEDED FOR DEALING WITH GROUNDWATER POLLUTION CONTROL, A HIERARCHY OF OBJECTIVES MODELING STEPS AND ASPECTS OF POLLUTION CONTROL IS MAPPED. SPECIFIC INFORMATION NEEDS ARE IDENTIFIED.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS ACCESSION NUMBER: EW#14612

PUBLICATION DATE: 86

TITLE: PREPARATION OF PROFESSIONALS FOR GROUNDWATER PROTECTION.

PERSONAL AUTHOR: PERRINE, RICHARD L.

DESCRIPTOR: *CALIFORNIA; *GROUNDWATER; *CASE STUDIES; *PERSONNEL; *TRAINING NEEDS; *POLLUTION CONTROL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 199-2#9P.

ABSTRACT: TRAINING NEEDS FOR GROUNDWATER PROTECTION PROFESSIONALS ARE CONSIDERED. A CASE STUDY OF A CALIFORNIA REGIONAL AGENCY IS USED TO CONSIDER NEEDS.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS ACCESSION NUMBER: EW#14613

PUBLICATION DATE: 86

TITLE: FUNCTIONS AND ACTIVITIES OF GROUNDWATER PROTECTION: IMPLICATIONS FOR INSTRUCTIONAL COORDINATION.

PERSONAL AUTHOR: CANTER, LARRY

DESCRIPTOR: *COORDINATION; *GROUNDWATER; *FUNDING; *INSTITUTIONAL COORDINATION; *MANAGEMENT; *PERSONNEL; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 219-224P.

ABSTRACT: THIS PAPER EXPLORES VARIOUS ELEMENTS OF GROUNDWATER PROTECTION PROGRAMS AND COORDINATION NEEDS AND IDENTIFIES SEVERAL POLICY ISSUES. EXAMPLES INCLUDE MEASURES TO ACHIEVE OPTIMUM COORDINATION, INFORMATION EXCHANGE, SHARED FUNDING, AND PERSONNEL.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS ACCESSION NUMBER: EW#14614

PUBLICATION DATE: 86

TITLE: EFFECTIVENESS AND EQUITY OF GROUNDWATER MANAGEMENT METHODS IN THE WESTERN UNITED STATES.

PERSONAL AUTHOR: EMEL, JACQUE L.; MADDOCK, THOMAS III.

DESCRIPTOR: *EFFECTIVENESS; *EQUITY; *GROUNDWATER; *MANAGEMENT; *PROPERTY RIGHTS; *AQUIFER DEVELOPMENT; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 225-236P.

ABSTRACT: THIS PAPER CONSIDERS THE EFFECTIVENESS AND EQUITY

OF THE SET OF MANAGEMENT ALTERNATIVES USED BY ADMINISTRATIVE AGENCIES IN THE 17 CONTINENTAL STATES OF THE WESTERN U.S. TO ACCOMPLISH THE GOALS OF PROPERTY RIGHT PROTECTION AND AQUIFER DEVELOPMENT.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS ACCESSION NUMBER: EW#14615

PUBLICATION DATE: 86

TITLE: CONCEPTUAL DESIGN FOR A GROUNDWATER QUALITY MONITORING STRATEGY.

PERSONAL AUTHOR: RAJAGOPAL, R.

DESCRIPTOR: *DESIGN; *GROUNDWATER; *MONITORING; *MONITORING PROGRAMS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 244-264P.

ABSTRACT: DESCRIBED IS THE CONCEPTUAL DESIGN FOR A GROUNDWATER QUALITY MONITORING STRATEGY.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS ACCESSION NUMBER: EW#14619

PUBLICATION DATE: APR 86

TITLE: NEAR-REAL-TIME FORECASTING OF LARGE-LAKE WATER SUPPLIES; A USER'S MANUAL.

PERSONAL AUTHOR: CROLEY, THOMAS E.; HARTMAN, HOLLY C.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *COMPUTER SOFTWARE; *FORECASTING; *LAKES; *LAKE LEVEL; *USER MANUALS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 87P.

ABSTRACT: DESCRIBED IS A SOFTWARE PACKAGE FOR MAKING DETERMINISTIC OR PROBABILISTIC OUTLOOKS OF BASIN MOISTURE STORAGE CONDITIONS, BASIN RUNOFF, NET LAKE SUPPLIES, AND LAKE LEVELS SIX MONTHS INTO THE FUTURE FOR LARGE LAKES. THE PACKAGE WAS DESIGNED FOR USE ON SMALL COMPUTERS WITH A FORTRAN-77 OR TURBO-PASCAL COMPILER, 2-5 MEGABYTES OF DISK STORAGE, AND A MINIMUM OF CPU AND MEMORY RESOURCES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW#1462#

TITLE: ON-SITE WASTEWATER TREATMENT.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *DESIGN; *MANAGEMENT; *RESEARCH NEEDS; *PLANNING; *ON-SITE WASTEWATER TREATMENT;

*TECHNOLOGY; *WASTEWATER TREATMENT; *PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 383P. MEMBER--$23.50, LIST--$27.00

ABSTRACT: THE PROCEEDINGS OF THE FOURTH NATIONAL SYMPOSIUM ON INDIVIDUAL AND SMALL COMMUNITY SEWAGE SYSTEMS HELD DECEMBER 1984 PRESENTS THE LATEST INFORMATION ON TECHNOLOGY, MANAGEMENT, AND RESEARCH NEEDS RELATING TO ON-SITE WASTE TREATMENT AND DISPOSAL. THESE 42 PAPERS FEATURE CURRENT TRENDS SUCH AS DESIGN, PLANNING, MANAGEMENT, AND PERFORMANCE OF LARGE SYSTEMS, THE USE OF COMPUTERS FOR ON-SITE TECHNOLOGY, SITE EVALUATION AND MORE.

AVAILABILITY: AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS, DEPT. 16, 2950 NILES RD., ST. JOSEPH, MI 49085-9659

IRIS ACCESSION NUMBER: EW014621

PUBLICATION DATE: 82

TITLE: WATER IN THE WEST: WHAT INDIAN WATER MEANS TO THE WEST. VOL. I.

PERSONAL AUTHOR: FOLK-WILLIAMS, JOHN A.

DESCRIPTOR: *INDIANS; *RESOLUTIONS; *POLICIES; *WATER RESOURCES; *WATER RIGHTS; *WESTERN UNITED STATES

DESCRIPTIVE NOTE: 160P. $15.00 PAPER, COMPLETE SERIES (VOLUMES I, II, & III)--$55.00

ABSTRACT: THIS IS VOLUME ONE IN A SERIES OF SOURCEBOOKS. THIS BOOK TRACES THE HISTORICAL BACKGROUNDS OF DISPUTES OVER WATER RIGHTS BETWEEN INDIANS AND NON-INDIANS IN THIRTEEN STATES. IT PROVIDES A SUMMARY OF DECISION-MAKING AND NEGOTIATION STRATEGIES, IN ADDITION TO REVIEWS OF CURRENT RESOLUTIONS TO DISPUTES OVER INDIAN WATER RIGHTS. CONTENTS INCLUDE: (1) BLACKFEET LAND AND WATER CONSERVATION; (2) AK-CHIN INDIAN COMMUNITY WATER RIGHTS SETTLEMENT ACT OF 1978; (3) UTE INDIAN WATER COMPACT OF 1980; AND (4) INDIAN WATER RIGHTS ACT OF 1981.

AVAILABILITY: ISLAND PRESS, A DIVISION OF THE CENTER FOR RESOURCE ECONOMICS, 1718 CONNECTICUT AVENUE, SUITE 300, WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW014623

PUBLICATION DATE: 85

TITLE: WATER IN THE WEST: WESTERN WATER FLOWS TO THE CITIES. VOL. III.

PERSONAL AUTHOR: FOLK-WILLIAMS, JOHN A.; AND OTHERS

DESCRIPTOR: *MANAGEMENT; *POLICIES; *WATER RIGHTS; *WATER RESOURCES; *WESTERN UNITED STATES

DESCRIPTIVE NOTE: 217P. $25.00 PAPER, COMPLETE SERIES (VOLUMES I, II, & III)--$55.00

ABSTRACT: THIS BOOK OUTLINES THE DEVELOPMENT OF STRONG COMPETITION FOR CONTROL OF THE WATER RESOURCES IN THE SOUTHWEST AND DESCRIBES THE METHODS BEING USED TO MAKE DECISIONS. THIS WELL-DOCUMENTED VOLUME HIGHLIGHTS THE INNOVATIVE ALTERNATIVES AND SOLUTIONS USED TO SATISFY THE NEEDS OF WATER USERS IN BOTH URBAN AND RURAL AREAS.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE 300, WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW014626

PUBLICATION DATE: 84

TITLE: AMERICA'S WATER: CURRENT TRENDS AND ENGINEERING ISSUES.

PERSONAL AUTHOR: CLARK, EDWIN H.; METZGER, PHILIP C.

DESCRIPTOR: *CONTAMINANTS; *POLICIES; *MANAGEMENT; *RISK ASSESSMENT; *TRENDS; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY; *RISK CONTROL

DESCRIPTIVE NOTE: 51P. $7.50 (PAPER)

ABSTRACT: THIS BOOK CONSIDERS TRENDS IN WATER QUALITY, WATER RESOURCES, AND MANAGEMENT. THE DISCUSSION CONSIDERS TRENDS AND EMERGING ISSUES. CONTENTS INCLUDE: (1) ENVIRONMENTAL CONTAMINANTS; (2) RISK ASSESSMENT AND RISK CONTROL; AND (3) FEDERAL, STATE, AND LOCAL ENVIRONMENTAL POLICIES.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE 300, WASHINGTON D.C. 20009

IRIS ACCESSION NUMBER: EW014627

PUBLICATION DATE: 84

TITLE: WATER RESOURCES: DISTRIBUTION, USE, AND MANAGEMENT.

PERSONAL AUTHOR: MATHER, JOHN R.

DESCRIPTOR: HISTORY; LEGISLATION; NATURAL RESOURCES; *MANAGEMENT; RESOURCE MANAGEMENT; *TRENDS; *WATER RESOURCES; *WATER USE; *WATER SUPPLY; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 439P. $40.00 (CLOTH)

ABSTRACT: THIS PUBLICATION IS A COMPREHENSIVE EXAMINATION OF WORLD-WIDE WATER RESOURCES. CONTENTS INCLUDE: (1) AN HISTORICAL PERSPECTIVE ON FEDERAL WATER RESOURCES LEGISLATION; (2) INTERACTION BETWEEN WATER PROBLEMS AND THE HYDROLOGIC CYCLE; (3) COMPARISONS OF SOVIET AND AMERICAN WATER POLICY; (4) WEATHER MODIFICATION AND SALINE WATER CONVERSION; (5) NEWLY EMERGING TRENDS IN WATER USE; AND (6) FUTURE DIRECTIONS IN WATER RESOURCE MANAGEMENT.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE 300, WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW#14628

PUBLICATION DATE: 85

TITLE: PRODUCT RISK REDUCTION IN THE CHEMICAL INDUSTRY.

PERSONAL AUTHOR: MILLER, LEONARD A.; AND OTHERS

DESCRIPTOR: *CHEMICALS; *COMPLIANCE; *INSURANCE; *INDUSTRY; *LIABILITY; *REGULATIONS; *RISK ASSESSMENT; *RISK REDUCTION; *SAFETY

DESCRIPTIVE NOTE: 3##P. $75.## (PAPER)

ABSTRACT: DESIGNED FOR MANAGERS, ENGINEERS, AND LEGAL COUNSEL IN THE CHEMICAL INDUSTRY, THIS VALUABLE HANDBOOK COVERS KEY AREAS THAT AFFECT POTENTIAL LIABILITY OF CHEMICAL MANUFACTURERS AND DISTRIBUTORS. EXAMINED ARE WAYS OF REDUCING RISKS, SUCH AS WARNINGS, DIRECTIONS FOR PRODUCT USE, APPROPRIATE RISK ASSESSMENTS, INSURANCE, AND THE PROTECTION OF CORPORATE FILES.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE 3##, WASHINGTON, D.C. 2####9

IRIS ACCESSION NUMBER: EW#14630

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT: REDUCING THE RISK.

PERSONAL AUTHOR: GOLDMAN, BENJAMIN A.; AND OTHERS

DESCRIPTOR: *HAZARDOUS WASTE MANAGEMENT; *LEGISLATION; *MANAGEMENT; *REGULATIONS; *VENDORS; *WASTE MANAGEMENT; *TECHNOLOGY

DESCRIPTIVE NOTE: 336P. $64.95 (CLOTH), $34.95 (PAPER)

ABSTRACT: THIS IS A GUIDE TO FACTS AND STRATEGIES FOR RESPONSIBLE WASTE MANAGEMENT. CONTENTS INCLUDE: (1) TOOLS FOR CHOOSING WASTE MANAGEMENT VENDORS; (2) HOW TO RANK THE REGULATORS; (3) "REPORT CARDS" EVALUATING THE TEN HAZARDOUS WASTE MANAGEMENT FACILITIES; (4) "REPORT CARDS" EVALUATING THE EIGHT LARGEST HAZARDOUS WASTE CORPORATIONS; (5) THE TWO KEY HAZARDOUS WASTE LAWS; (6) MATCHING MANAGEMENT TECHNOLOGIES TO WASTES-RECOMMENDATIONS FOR THE INDUSTRY; AND(7) RECOMMENDATIONS FOR THE REGULATORS.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE 3##, WASHINGTON, D.C. 2####9

IRIS ACCESSION NUMBER: EW#14631

PUBLICATION DATE: APRIL 87

TITLE: CHEMISTRY OF GROUNDWATER.

PERSONAL AUTHOR: RICE, RICHARD E.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BIOLOGICAL PROCESSES; *CHEMISTRY; *CHEMICAL REACTIONS; *CONTAMINATION; *GROUNDWATER; *MANAGEMENT; *MONITORING; *SAMPLING; *WATER QUALITY

DESCRIPTIVE NOTE: 3##P. $49.95

ABSTRACT: THIS BOOK ON CHEMISTRY OF GROUND WATER DEALS WITH BOTH NATURAL AND CONTAMINATED WATERS. INFORMATION INCLUDES: EVOLUTION OF GROUND WATER, PRODUCTION OF ACID WATERS, TRACE ELEMENT MOBILITY, CHEMICAL EQUILIBRIUM COMPUTER MODELS, OXYGEN AND SULFUR ISOTOPES IN POLLUTION STUDIES, RADIONUCLIDES, NITRATES AND PHOSPHATES, IMPORTANCE OF NITROGEN ISOTOPES IN DETERMINING SOURCES OF NITRATE POLLUTION, SOLUTE TRANSPORT MODELING, ORGANIC CHEMICALS, INTERACTIONS WITH THE GEOLOGIC MATRIX, TRANSPORT, AND DEGRADATION MONITORING AND SAMPLING OF GROUND WATER AND ANALYTICAL CHEMISTRY TECHNIQUES.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, POST OFFICE DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14632

PUBLICATION DATE: 86

TITLE: ENVIRONMENTAL EPIDEMIOLOGY.

PERSONAL AUTHOR: KOPFLER, FRED; CRAUN, GUNTHER

DESCRIPTOR: *AIR EXPOSURE; *CHEMICALS; *CONTAMINANTS; *ENVIRONMENTAL EPIDEMIOLOGY; *EXPOSURE; *MONITORING; *OCCUPATIONAL EXPOSURE; *PUBLIC HEALTH; *WATER EXPOSURE

DESCRIPTIVE NOTE: 284P. $49.95

ABSTRACT: CONTENTS OF THE BOOK INCLUDE: (1) USE OF BIOLOGICAL MONITORING TO ASSESS EXPOSURE DATA; (2) ENVIRONMENTAL EPIDEMIOLOGIC CONSIDERATIONS FOR ASSESSING EXPOSURE AND ASSOCIATING EXPOSURE WITH MORBIDITY/MORTALITY; (3) HEALTH AND EXPOSURE DATA BASES; AND (4) ASSESSMENT OF EXPOSURE TO ENVIRONMENTAL CONTAMINANTS FOR EPIDEMIOLOGIC STUDIES.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, POST OFFICE DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14633

PUBLICATION DATE: 86

TITLE: QUANTITATIVE RISK ASSESSMENT FOR ENVIRONMENTAL AND OCCUPATIONAL HEALTH.

PERSONAL AUTHOR: HALLENBECK, W.H.; CUNNINGHAM, KATHLEEN M.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ENVIRONMENTAL HEALTH; *INSTRUCTIONAL MATERIALS; *OCCUPATIONAL HEALTH; *POSTSECONDARY EDUCATION; *RISK ASSESSMENT

DESCRIPTIVE NOTE: 203P. $35.95
ABSTRACT: THIS PUBLICATION PRESENTS CONCEPTS, METHODS, AND PROCEDURES FOR ASSESSMENT OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH. TOPICS INCLUDE: (1) CONCEPTS; (2) METHODS; (3) LIMITATIONS; (4) EXPOSURE CHARACTERIZATION; (5) QUALITATIVE EVALUATION OF HUMAN AND ANIMAL STUDIES; (6) QUANTITATIVE EVALUATION OF HUMAN ANIMAL STUDIES; (7) RISK ANALYSIS; (8) ACCEPTABLE CONCENTRATIONS; AND (9) EXAMPLES.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, POST OFFICE DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14635

TITLE: HAZARDOUS CLASSIFICATION SYSTEMS: A COMPARATIVE GUIDE TO DEFINITIONS AND LABELS.

DESCRIPTOR: *CLASSIFICATION SYSTEMS; *DEFINITIONS; *HAZARD CLASSIFICATION SYSTEMS; *NATIONAL FIRE PROTECTION ASSOCIATION; *OSHA; *REQUIRED LABELS; *U.S DEPARTMENT OF TRANSPORTATION; *USEPA

DESCRIPTIVE NOTE: 212, 46 CHARTSP. $52.##

ABSTRACT: THIS IS A COMPARATIVE GUIDE TO THE HAZARD CLASS DEFINITIONS AND SYMBOLS USED BY (1) U.S. DEPARTMENT OF TRANSPORTATION; (2) OSHA; (3) USEPA; AND (4) THE NATIONAL FIRE PROTECTION ASSOCIATION.

AVAILABILITY: HAZARDOUS MATERIALS INFORMATION CENTER, INTER/FACE ASSOCIATES, INC., 62 WASHINGTON ST., MIDDLETOWN, CT #6457

IRIS ACCESSION NUMBER: EW#14636

TITLE: RIGHT TO KNOW: A GUIDE TO FEDERAL AND STATE PROGRAMS.

DESCRIPTOR: *GUIDES; *COMPLIANCE; *FEDERAL PROGRAMS; *HAZARDOUS MATERIALS; *LEGISLATION; *REGULATIONS; *REPORTING; *RIGHT TO KNOW; *STATE PROGRAMS; *TRAINING; *RECORDKEEPING

DESCRIPTIVE NOTE: 270P. $65.##

ABSTRACT: THIS GUIDE, UPDATED TO SEPTEMBER 1986, EXPLAINS BOTH FEDERAL AND STATE RIGHT TO KNOW REQUIREMENTS. IT INCLUDES CHECKLISTS FOR COMPLIANCE PLANNING, REFERENCE TABLES FOR COMPARING STATE REQUIREMENTS TO THOSE OF OSHA, A DETAILED ANALYSIS OF THE FEDERAL HAZARD COMMUNICATION STANDARD, AND A SUMMARY OF EACH STATE'S RIGHT TO KNOW PROGRAM. THE GUIDE IS ORGANIZED BY TOPIC AND INCLUDES INFORMATION ON TRAINING, LABELING, SUBSTANCES, RECORDKEEPING, REPORTING, AND RULES FOR MATERIAL SAFETY DATA SHEETS.

AVAILABILITY: HAZARDOUS MATERIALS INFORMATION CENTER, INTER/FACE ASSOCIATES, INC., 62 WASHINGTON ST., MIDDLETOWN, CT #6457

IRIS ACCESSION NUMBER: EW#14638
TITLE: USING THE HAZARDOUS WASTE MANIFEST: A MANUAL OF FEDERAL AND STATE REQUIREMENTS.

DESCRIPTOR: *HAZARDOUS WASTES; *MANIFESTS; *SHIPPING; *TRANSPORTATION; *FEDERAL REGULATIONS; *STATE REGULATIONS; *REGULATIONS; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 304P. $56.##

ABSTRACT: DESIGNED FOR HAZARDOUS WASTE GENERATORS AND TRANSPORTERS WHO ASSIST THEM WITH MANIFEST FORMS, THE MANUAL CLEARLY EXPLAINS EPA'S MANIFEST SYSTEM AND GIVES YOU STEP-BY-STEP INSTRUCTIONS FOR COMPLETING THE UNIFORM MANIFEST FOR HIGHWAY SHIPMENTS. THEN, FOR EACH STATE, THE MANUAL COVERS 11 IMPORTANT TOPICS ON MANIFEST USE, INCLUDING: (1) STATE-REQUIRED MANIFEST FORMS; (2) STATE-REQUIRED INFORMATION ITEMS; (3) RULES FOR OUT-OF-STATE GENERATORS; (4) STATE-REGULATED WASTES; AND (5) STATE AGENCY CONTACT PERSON. THE MANUAL ALSO PROVIDES REFERENCE TABLES--50 STATES AT A GLANCE.

AVAILABILITY: HAZARDOUS MATERIALS INFORMATION CENTER, INTER/FACE ASSOCIATES, INC., 62 WASHINGTON ST., MIDDLETOWN, CT #6457

IRIS ACCESSION NUMBER: EW#14639

PUBLICATION DATE: MAY 87

TITLE: INNOVATIVE STATE POLICIES FOR AIDING COMMUNITY WATER SUPPLIERS.

PERSONAL AUTHOR: HUMPHREY, NANCY PATRICIA; WALKER, CHRISTOPHER

DESCRIPTOR: *COMMUNITIES; *FINANCING; *MANAGEMENT; *POLICIES; *STATE POLICIES; *REGULATIONS; *WATER SUPPLY; *WATER TREATMENT; *WATER SUPPLIERS

DESCRIPTIVE NOTE: 34-41P.

ABSTRACT: SEVERAL STATES ARE BEGINNING TO ADDRESS THE FINANCING PROBLEMS OF WATER PROBLEMS. STATE POLICY INITIATIVES FOR ASSISTING COMMUNITIES IN MANAGING, FINANCING, AND REGULATING WATER SUPPLIES ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N5

IRIS ACCESSION NUMBER: EW#14640

PUBLICATION DATE: MAY 87

TITLE: REGULATORY DILEMMAS ENSNARE ARIZONA'S SMALL WATER COMPANIES.

PERSONAL AUTHOR: HOLUB, HUGH A.

DESCRIPTOR: *FINANCING; *ARIZONA; *CONSERVATION; *PROBLEMS; *PRIVATE COMPANIES; *REGULATIONS; *PUBLIC HEALTH; *WATER COMPANIES; *WATER SUPPLIERS; *WATER RATES

DESCRIPTIVE NOTE: 42-47P.

ABSTRACT: CAUGHT BETWEEN WATER QUALITY REGULATIONS AND LIMITED RATE INCREASES, SMALL PRIVATELY OWNED WATER COMPANIES ARE APPEALING FOR LEGISLATIVE RELIEF. DESCRIBED ARE SOME OF THE PROBLEMS FACED BY SMALL WATER COMPANIES IN ARIZONA.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N5

IRIS ACCESSION NUMBER: EW#14641

PUBLICATION DATE: MAY 85

TITLE: A WATER RESOURCES AUDIT FOR SMALL COMMUNITIES.

PERSONAL AUTHOR: TRAUTH, KATHLEEN M.; AND OTHERS

DESCRIPTOR: *AUDITS; *CONSERVATION; *MANAGEMENT; *PLANNING; *RURAL AREAS; *SMALL COMMUNITIES; *WATER RESOURCES; *WATER SUPPLIERS; *WATER USE; *WASTEWATER; *STORM WATER

DESCRIPTIVE NOTE: 48-51P.

ABSTRACT: A SELF-HELP AUDIT ENABLES WATER UTILITIES TO IDENTIFY STRENGTHS AND WEAKNESSES TO ASSIST WITH PLANNING. THIS ARTICLE DESCRIBES A "DO-IT-YOURSELF" AUDIT.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79 N5

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EUROPE	(1)	EW0014355						
*EVALUATION	(1)	EW0014335						
*EXPOSURE	(1)	EW0014632						

*FACILITIES	(28)	EW#14161	EW#14162	EW#1417#	EW#14229	EW#1423#	EW#14324	EW#14326
	EW#14327	EW#14349	EW#1435#	EW#14361	EW#14362	EW#14369	EW#14375	EW#14393
	EW#14395	EW#14397	EW#14411	EW#14414	EW#14419	EW#14439	EW#14455	EW#1447#
	EW#14472	EW#14493	EW#14531	EW#14558	EW#14568			
*FEDERAL PROGRAMS	(1)	EW#14636						
*FEDERAL REGULATIONS	(1)	EW#14638						
*FEDERAL REPORTS	(1)	EW#14347						
*FEDERAL ROLE	(3)	EW#14375	EW#14426	EW#1461#				
FEDERAL ROLE	(3)	EW#14347	EW#1448#	EW#145##				
*FEE SCHEDULES	(1)	EW#14671						
*FERTILIZER	(1)	EW#14517						
*FERTILIZERS	(1)	EW#14442						
*FILMS	(4)	EW#14469	EW#1447#	EW#14471	EW#14482			
*FILMSTRIPS	(1)	EW#14484						
*FILTERS	(1)	EW#14394						
*FILTRATION	(1)	EW#14394						
*FINANCING	(4)	EW#14351	EW#14375	EW#14639	EW#1464#			
*FIRE	(1)	EW#14537						
*FIRE HAZARDS	(1)	EW#1460#5						
*FISH	(2)	EW#14587	EW#14588					
*FIXED-FILM BIOLOGICAL PROCESSES	(2)	EW#14522	EW#14523					
*FLAVOR PROFILE ANALYSIS METHOD	(1)	EW#14329						
*FLORIDA	(2)	EW#14169	EW#1433#					
*FLOW METERS	(1)	EW#1452#						
*FLUORIDATION	(1)	EW#14521						
*FORECASTING	(1)	EW#14619						
*FUNDING	(4)	EW#14346	EW#14375	EW#14411	EW#14613			
*FUTURE NEEDS	(1)	EW#14375						
*GARBAGE	(1)	EW#1460##						
*GAS CAPTURE SYSTEMS	(1)	EW#14349						
*GASEOUS EMISSIONS	(1)	EW#14491						
*GENERAL ACCOUNTING OFFICE	(1)	EW#14424						
*GEORGIA	(1)	EW#14323						
*GIARDIASIS	(1)	EW#14161						

*GRANULAR ACTIVATED CARBON	(1)	EW#14556						
*GROUNDWATER	(22)	EW#1433#	EW#14338	EW#14354	EW#14356	EW#14367	EW#1440#	EW#14415
	EW#1444#	EW#1446#	EW#14481	EW#14495	EW#14585	EW#14591	EW#14592	EW#14593
	EW#1461#	EW#14611	EW#14612	EW#14613	EW#14614	EW#14615	EW#14631	
GROUNDWATER	(1)	EW#14365						
*GROUP DYNAMICS	(1)	EW#14332						
*GROUTING MATERIALS	(1)	EW#14354						
*GUIDANCE MANUALS	(2)	EW#1440#	EW#14411					
*GUIDELINES	(2)	EW#14164	EW#14439					
*GUIDES	(3)	EW#14445	EW#1459#	EW#14636				
*HALOFORM FORMATION POTENTIAL	(1)	EW#14331						
*HANDBOOKS	(2)	EW#14459	EW#1460#					
*HAZARD CLASSIFICATION	(1)	EW#1460#						
*HAZARD CLASSIFICATION SYSTEMS	(1)	EW#14635						
*HAZARDOUS MATERIALS	(2#)	EW#14165	EW#14167	EW#14168	EW#14344	EW#14361	EW#14366	EW#14397
	EW#1440#	EW#14455	EW#14484	EW#14499	EW#1450#	EW#14516	EW#1453#	EW#14532
	EW#14537	EW#14573	EW#14574	EW#1460#	EW#14636			
HAZARDOUS MATERIALS	(1)	EW#14222						
*HAZARDOUS WASTE GENERATORS	(1)	EW#1441#						
*HAZARDOUS WASTE MANAGEMENT	(1)	EW#1463#						
*HAZARDOUS WASTES	(22)	EW#14167	EW#14344	EW#14346	EW#14347	EW#14357	EW#14361	EW#1440#
	EW#1441#	EW#1445#	EW#14455	EW#14461	EW#14464	EW#14473	EW#14479	EW#14482
	EW#14499	EW#14573	EW#14574	EW#14583	EW#1459#	EW#14595	EW#14638	
HAZARDOUS WASTES	(2)	EW#14345	EW#14557					
*HAZARDOUS WASTE TRANSPORTERS	(1)	EW#1441#						
*HEALTH	(2)	EW#1458#	EW#14585					
*HEALTH HAZARDS	(2)	EW#14479	EW#1460#					
HEALTH SURVEYS	(1)	EW#14479						
*HEAT	(1)	EW#14228						
*HEAVY METALS	(1)	EW#14396						
HISTORY	(1)	EW#14627						
*HOMES	(1)	EW#14476						
*HOUSEHOLD WASTES	(1)	EW#14557						
*HUDSON RIVER	(1)	EW#1460#						
*HYDROLOGY	(1)	EW#14437						

*HYPERBARIC OXYOZOSYNTHESIS PROCESS	(1)	EW0014419
*INCINERATION	(4)	EW0014167 EW0014571 EW0014600 EW0014604
*INCINERATORS	(1)	EW0014418
INDEXES	(1)	EW0014222
*INDIANS	(1)	EW0014621
*INDUSTRIAL WASTES	(12)	EW0014225 EW0014344 EW0014409 EW0014450 EW0014498 EW0014559 EW0014575 EW0014576 EW0014590 EW0014594 EW0014595 EW0014608
*INDUSTRY	(2)	EW0014410 EW0014628
INFORMATION DISSEMINATION	(1)	EW0014222
*INFORMATION NEEDS	(1)	EW0014611
*INFORMATION SOURCES	(1)	EW0014590
*INFORMATION SYSTEMS	(2)	EW0013510 EW0014348
*INNOVATIVE TECHNOLOGY	(2)	EW0014358 EW0014551
*INSPECTION	(2)	EW0014437 EW0014572
*INSTALLATION	(1)	EW0014325
*INSTITUTIONAL COORDINATION	(1)	EW0014613
*INSTRUCTION	(4)	EW0014220 EW0014221 EW0014332 EW0014547
*INSTRUCTIONAL IMPROVEMENT	(1)	EW0014543
*INSTRUCTIONAL MATERIALS	(14)	EW0013510 EW0014222 EW0014461 EW0014471 EW0014484 EW0014486 EW0014494 EW0014546 EW0014552 EW0014553 EW0014580 EW0014589 EW0014602 EW0014633
*INSURANCE	(1)	EW0014628
*INTERNAL AUDITS	(1)	EW0014424
*INTERVIEWING TECHNIQUES	(1)	EW0014407
*ION EXCHANGE	(1)	EW0014368
*IRRIGATION	(2)	EW0014584 EW0014606
*ISSUES	(3)	EW0014224 EW0014225 EW0014465
*JOB DESCRIPTIONS	(1)	EW0014545
*LABORATORIES	(1)	EW0014489
*LABORATORY PROCEDURE	(1)	EW0014602
*LABORATORY PROCEDURES	(7)	EW0014218 EW0014331 EW0014446 EW0014474 EW0014486 EW0014526 EW0014603
*LAGOONS	(1)	EW0014172
*LAKE LEVEL	(1)	EW0014619

*LAKES (1) EW0014619
*LAKE ST. CLAIR (1) EW0014425
*LAND APPLICATION (1) EW0014330
*LANDFILLS (2) EW0014452 EW0014531
*LAWS (1) EW0014583
LAWS (1) EW0014480
*LEACHATE (2) EW0014452 EW0014531
*LEAK DETECTION (1) EW0014355
*LEAK PREVENTION (1) EW0014355
*LEARNING (1) EW0014547
*LEGISLATION (10) EW0014346 EW0014464 EW0014499 EW0014519 EW0014583 EW0014586 EW0014589 EW0014610 EW0014630 EW0014636
LEGISLATION (3) EW0014457 EW0014518 EW0014627
*LEGISLATIVE AMENDMENTS (1) EW0014518
*LIABILITIES (1) EW0014583
*LIABILITY (2) EW0014519 EW0014628
*LIGHT (1) EW0014353
*LIGHTING (1) EW0014353
*LIME (1) EW0014576
*LINERS (1) EW0014452
*LOCAL ROLE (3) EW0014426 EW0014439 EW0014610
LOCAL ROLE (1) EW0014500
*MAGNESIUM HYDROXIDE (1) EW0014575
*MAINTENANCE (17) EW0014169 EW0014217 EW0014323 EW0014325 EW0014341 EW0014397 EW0014417 EW0014441 EW0014458 EW0014472 EW0014523 EW0014526 EW0014528 EW0014570 EW0014572 EW0014584 EW0014598
*MAINTENANCE PROGRAMS (1) EW0014169
*MANAGEMENT (62) EW0013510 EW0014169 EW0014171 EW0014334 EW0014335 EW0014343 EW0014345 EW0014348 EW0014351 EW0014352 EW0014357 EW0014366 EW0014400 EW0014404 EW0014406 EW0014409 EW0014417 EW0014440 EW0014441 EW0014442 EW0014445 EW0014447 EW0014448 EW0014449 EW0014452 EW0014455 EW0014462 EW0014464 EW0014465 EW0014466 EW0014471 EW0014472 EW0014473 EW0014478 EW0014484 EW0014494 EW0014499 EW0014500 EW0014516 EW0014526 EW0014528 EW0014529 EW0014530 EW0014535 EW0014536 EW0014545 EW0014558 EW0014570 EW0014603 EW0014604 EW0014609 EW0014610 EW0014613 EW0014614 EW0014620 EW0014623 EW0014626 EW0014627 EW0014630 EW0014631 EW0014639 EW0014641
MANAGEMENT (3) EW0014439 EW0014457 EW0014611
*MANHOLES (1) EW0014527

*MANIFESTS	(1)	EW014638
*MANUALS	(3)	EW014447 EW014449 EW014479
*MANUFACTURERS	(1)	EW014451
*MARINE DISCHARGE WAIVERS	(1)	EW014224
*MARINE ENVIRONMENT	(1)	EW014599
*MARYLAND	(1)	EW014478
*MASSACHUSETTS	(2)	EW014366 EW014524
MASS BALANCE	(1)	EW014348
*MATERIALS HANDLING	(1)	EW014574
*MATERIAL STORAGE	(1)	EW014574
*MEMBRANES	(1)	EW014498
*MEMBRANE TECHNOLOGY	(1)	EW014498
*MENTORING	(1)	EW014534
*METALS	(4)	EW014218 EW014396 EW014428 EW014681
*METHANE	(1)	EW014349
*MICROCOMPUTERS	(1)	EW013518
MICROCOMPUTERS	(1)	EW014491
*MICROORGANISMS	(2)	EW014578 EW014579
*MIDDLE EAST	(1)	EW014451
*MINING	(1)	EW014437
*MIXING SYSTEMS	(1)	EW014568
*MODELING	(2)	EW014445 EW014591
*MODELS	(4)	EW014337 EW014468 EW014497 EW014536
*MOISTURE	(1)	EW014525
*MONITORING	(16)	EW014171 EW014336 EW014344 EW014356 EW014367 EW014409 EW014415 EW014437 EW014446 EW014480 EW014559 EW014592 EW014597 EW014615 EW014631 EW014632
MONITORING	(1)	EW014611
*MONITORING PROGRAMS	(2)	EW014559 EW014615
*MONITORING WELLS	(1)	EW014354
*MUNICIPAL COMPLIANCE	(1)	EW014426
*MUNICIPAL SLUDGE	(1)	EW014338
*MUTAGENS	(1)	EW014581

*NATIONAL FIRE PROTECTION ASSOCIATION	(1)	EW014635						
*NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	(1)	EW014426						
NATO	(1)	EW014457						
*NATURAL RESOURCES	(2)	EW014462	EW014465					
NATURAL RESOURCES	(2)	EW014466	EW014627					
*NEED ASSESSMENT	(1)	EW014375						
*NEW JERSEY	(3)	EW014516	EW014571	EW014590				
*NEW YORK	(1)	EW014162						
*NONPOINT SOURCE POLLUTION	(1)	EW014423						
*NON-THERMAL METHODS	(1)	EW014604						
*NORTH CAROLINA	(1)	EW014524						
*NPDES	(1)	EW014162						
*OCCUPATIONAL EXPOSURE	(1)	EW014632						
*OCCUPATIONAL HEALTH	(2)	EW014581	EW014633					
*OCEANOGRAPHY	(1)	EW014457						
*ODOR	(3)	EW014329	EW014521	EW014525				
*OECD	(1)	EW014442						
*OFFICE OF INSPECTOR GENERAL	(1)	EW014424						
*OFFSITE BENEFITS	(1)	EW014423						
*OFFSITE DAMAGES	(1)	EW014423						
*OHIO	(1)	EW014363						
*OIL	(2)	EW014355	EW014599					
*OIL SPILLS	(1)	EW014599						
*ON-SITE WASTEWATER TREATMENT	(1)	EW014620						
*OPERATING REVENUES	(1)	EW014571						
*OPERATIONS	(2)	EW014348	EW014584					
OPERATIONS	(1)	EW014611						
*OPERATIONS (WASTEWATER)	(67)	EW014169	EW014172	EW014217	EW014218	EW014219	EW014224	EW014225
		EW014226	EW014227	EW014228	EW014229	EW014230	EW014323	EW014324	EW014325
		EW014327	EW014337	EW014339	EW014341	EW014342	EW014343	EW014344	EW014350
		EW014352	EW014358	EW014369	EW014375	EW014393	EW014394	EW014395	EW014396
		EW014397	EW014398	EW014399	EW014400	EW014410	EW014412	EW014417	EW014418

	EW0014419	EW0014427	EW0014439	EW0014447	EW0014449	EW0014470	EW0014493	EW0014517
	EW0014522	EW0014523	EW0014526	EW0014527	EW0014528	EW0014529	EW0014533	EW0014549
	EW0014552	EW0014553	EW0014558	EW0014560	EW0014567	EW0014568	EW0014569	EW0014570
	EW0014572	EW0014575	EW0014576	EW0014598				
OPERATIONS (WASTEWATER)	(2)	EW0014345	EW0014597					
*OPERATIONS (WASTEWATER)	(1)	EW0014351						
*OPERATIONS (WASTEWATER TREATMENT)	(1)	EW0014340						
*OPERATIONS (WATER)	(19)	EW0014161	EW0014162	EW0014163	EW0014169	EW0014329	EW0014330	EW0014331
	EW0014362	EW0014368	EW0014403	EW0014439	EW0014441	EW0014449	EW0014456	EW0014472
	EW0014518	EW0014519	EW0014521	EW0014597				
*OPERATORS	(1)	EW0014450						
*OPINION POLLS	(1)	EW0014360						
*ORGANIC CHEMICALS	(2)	EW0014405	EW0014456					
*ORGANIC COMPOUNDS	(3)	EW0014338	EW0014601	EW0014603				
*ORGANIC POLLUTANTS	(3)	EW0014460	EW0014533	EW0014591				
*ORGANICS	(1)	EW0014409						
*ORGANIZATIONAL CLIMATE	(1)	EW0014544						
*OSHA	(1)	EW0014635						
*OXYGEN	(1)	EW0014525						
*OXYGEN LEVELS	(1)	EW0014399						
*OXYOZOSYNTHESIS PROCESS	(1)	EW0014419						
*OZONE	(2)	EW0014533	EW0014597					
*PACKAGE PLANTS	(1)	EW0014531						
*PATHOGENS	(1)	EW0014525						
*PCB'S	(1)	EW0014604						
*PCBS	(1)	EW0014474						
PENNSYLVANIA	(1)	EW0014558						
*PERFORMANCE APPRAISAL	(2)	EW0014407	EW0014535					
*PERFORMANCE EVALUATION	(31)	EW0014163	EW0014226	EW0014227	EW0014325	EW0014338	EW0014339	EW0014340
	EW0014342	EW0014352	EW0014393	EW0014394	EW0014395	EW0014403	EW0014417	EW0014418
	EW0014424	EW0014513	EW0014522	EW0014523	EW0014525	EW0014528	EW0014549	EW0014556
	EW0014560	EW0014568	EW0014569	EW0014575	EW0014576	EW0014584	EW0014604	EW0014620
*PERSONAL COMPUTERS	(1)	EW0013510						
*PERSONNEL	(2)	EW0014612	EW0014613					
*PESTICIDES	(5)	EW0014222	EW0014442	EW0014481	EW0014587	EW0014588		
*PETROCHEMICALS	(1)	EW0014595						

*PETROLEUM	(3)	EW014168	EW014355	EW014599				
*PH	(1)	EW014364						
*PHOTOGRAPHY	(1)	EW014353						
*PHYSICAL PROPERTIES	(1)	EW014685						
*PILOT PLANTS	(1)	EW014419						
*PIPES	(2)	EW014363	EW014364					
*PLANNING	(14)	EW014357	EW014361	EW014375	EW014398	EW014404	EW014449	EW014465
	EW014466	EW014472	EW014478	EW014494	EW014497	EW014628	EW014641	
PLANNING	(3)	EW014401	EW014439	EW014586				
*PLANTS	(1)	EW014428						
*POINT SOURCE POLLUTION	(1)	EW014423						
*POLICIES	(13)	EW014366	EW014434	EW014442	EW014457	EW014488	EW014511	EW014514
	EW014581	EW014600	EW014621	EW014623	EW014626	EW014639		
POLICY	(1)	EW014518						
*POLLUTION	(1)	EW014532						
POLLUTION	(1)	EW014488						
*POLLUTION CONTROL	(29)	EW014167	EW014168	EW014346	EW014347	EW014367	EW014368	EW014402
	EW014405	EW014452	EW014464	EW014476	EW014479	EW014480	EW014482	EW014484
	EW014498	EW014530	EW014531	EW014532	EW014573	EW014574	EW014581	EW014590
	EW014594	EW014595	EW014596	EW014611	EW014612	EW014638		
*POLLUTION EFFECTS	(1)	EW014685						
POLLUTION PREVENTION	(1)	EW014611						
*POLLUTION SOURCES	(1)	EW014434						
*POSTSECONDARY EDUCATION	(7)	EW014437	EW014486	EW014552	EW014553	EW014588	EW014682	EW014633
POSTSECONDARY EDUCATION	(1)	EW014222						
*PRELIMINARY TREATMENT	(1)	EW014427						
*PRELOADING	(1)	EW014496						
*PRESENTATIONS	(1)	EW014332						
*PRESENTATION TECHNIQUES	(1)	EW014332						
*PRESSURE SEWER SYSTEMS	(1)	EW014598						
*PRETREATMENT	(4)	EW014225	EW014409	EW014410	EW014411			
*PREVENTIVE MAINTENANCE	(1)	EW014323						
*PRIMARY EFFLUENT	(1)	EW014394						
*PRIMARY TREATMENT	(1)	EW014427						
*PRIORITIES	(2)	EW014336	EW014357					

*PRIVATE COMPANIES	(1)	EW0146400
*PROBLEMS	(1)	EW0146400
*PROBLEM SOLVING	(1)	EW0145360
*PROCESS CONTROL	(4)	EW0142190 EW0143430 EW0144000 EW0145670
*PROCESS CONTROLS	(1)	EW0143310
*PRODUCTIVITY	(1)	EW0145440
*PROGRAM DESCRIPTIONS	(1)	EW0144140
*PROGRAM EVALUATION	(1)	EW0143350
*PROJECT DESCRIPTIONS	(1)	EW0145240
*PROPERTY RIGHTS	(1)	EW0146140
*PROTECTIVE CLOTHING	(1)	EW0141640
*PUBLIC ATTITUDES	(2)	EW0144820 EW0145120
*PUBLIC HEALTH	(26)	EW0143570 EW0143680 EW0144040 EW0144440 EW0144540 EW0144590 EW0144640 EW0144760 EW0144790 EW0144810 EW0144820 EW0144840 EW0145190 EW0145300 EW0145320 EW0145370 EW0145540 EW0145550 EW0145560 EW0145670 EW0145800 EW0145820 EW0146000 EW0146090 EW0146320 EW0146400
PUBLIC HEALTH	(4)	EW0144010 EW0144910 EW0145000 EW0145860
*PUBLIC PARTICIPATION	(2)	EW0144790 EW0145930
*PULSED BED FILTERS	(1)	EW0143940
*PUMPS	(2)	EW0144580 EW0145720
*QUALITY ASSESSMENT REVIEWS	(1)	EW0144240
*QUALITY CONTROL	(2)	EW0144060 EW0144460
*RADIATION	(1)	EW0143680
RADIATION	(1)	EW0145810
*RADIONUCLIDES	(3)	EW0145540 EW0145550 EW0145560
*RADIUM	(1)	EW0145540
*RADON	(4)	EW0144760 EW0145540 EW0145550 EW0145560
*RCRA	(1)	EW0144180
*RECENT ADVANCES	(1)	EW0143240
*RECLAMATION	(1)	EW0144370
*RECOMMENDATIONS	(6)	EW0142280 EW0143470 EW0143540 EW0144240 EW0144260 EW0145430
RECOMMENDATIONS	(1)	EW0143550
*RECORDKEEPING	(1)	EW0146360

*RECYCLING	(9)	EW0014349	EW0014360	EW0014403	EW0014517	EW0014524	EW0014549	EW0014558
	EW0014585	EW0014594						
RECYCLING	(2)	EW0014461	EW0014586					
*REFERENCE MATERIALS	(3)	EW0014447	EW0014474	EW0014476				
*REGULATIONS	(18)	EW0014224	EW0014225	EW0014336	EW0014346	EW0014347	EW0014399	EW0014410
	EW0014516	EW0014519	EW0014574	EW0014582	EW0014600	EW0014628	EW0014630	EW0014636
	EW0014638	EW0014639	EW0014640					
REGULATIONS	(2)	EW0014355	EW0014360					
*REHABILITATION	(1)	EW0014358						
*REPORTING	(3)	EW0014218	EW0014409	EW0014636				
*REPORTS	(1)	EW0014462						
*REQUIRED LABELS	(1)	EW0014635						
*RESEARCH	(3)	EW0014457	EW0014497	EW0014523				
RESEARCH	(1)	EW0014611						
*RESEARCH DESIGN	(1)	EW0014459						
*RESEARCH METHODOLOGY	(1)	EW0014434						
*RESEARCH NEEDS	(1)	EW0014620						
*RESEARCH REPORTS	(12)	EW0014406	EW0014420	EW0014425	EW0014442	EW0014459	EW0014495	EW0014512
	EW0014513	EW0014514	EW0014522	EW0014549	EW0014599			
*RESEARCH REVIEWS	(2)	EW0014434	EW0014444					
*RESOLUTIONS	(1)	EW0014621						
RESOURCE MANAGEMENT	(1)	EW0014627						
*RESOURCE RECOVERY	(5)	EW0014228	EW0014349	EW0014360	EW0014517	EW0014589		
*RESPIRATORS	(1)	EW0014164						
*RETURN SLUDGE FLOW CONTROL	(1)	EW0014529						
*RETURN SLUDGE RATES	(1)	EW0014400						
*RIGHT TO KNOW	(1)	EW0014636						
*RISK ASSESSMENT	(11)	EW0014459	EW0014481	EW0014500	EW0014516	EW0014532	EW0014555	EW0014581
	EW0014593	EW0014626	EW0014628	EW0014633				
*RISK CONTROL	(1)	EW0014626						
*RISK REDUCTION	(1)	EW0014628						
*RIVERS	(1)	EW0014600						
*RURAL AREAS	(2)	EW0014551	EW0014641					
*SAFE DRINKING WATER ACT	(2)	EW0014456	EW0014518					

*SAFETY	(11)	EW#14164	EW#14397	EW#14398	EW#14399	EW#14458	EW#14464	EW#14527
	EW#14532	EW#14537	EW#14572	EW#14628				
*SAFETY PROGRAM	(1)	EW#14398						
*SAMPLING	(4)	EW#14356	EW#14437	EW#14446	EW#14631			
*SAND FILTERS	(2)	EW#14161	EW#14163					
*SECONDARY SCHOOL EDUCATION	(1)	EW#14589						
*SECONDARY TREATMENT	(2)	EW#14393	EW#14427					
*SEDIMENTATION	(1)	EW#14469						
*SEQUENCING BATCH REACTORS	(1)	EW#14395						
*SETTLING TANKS	(1)	EW#14342						
*SEWAGE SLUDGE	(5)	EW#1442#	EW#14524	EW#14525	EW#14549	EW#14558		
*SEWERS	(2)	EW#14527	EW#14598					
*SHIPPING	(1)	EW#14638						
*SHIPPING INFORMATION	(1)	EW#1460#						
*SIDESTREAMS	(1)	EW#1434#						
*SIMULATIONS	(1)	EW#14491						
*SLOW SAND FILTERS	(2)	EW#14161	EW#14163					
*SLUDGE	(17)	EW#14167	EW#14219	EW#1423#	EW#14339	EW#14343	EW#14396	EW#14412
	EW#14419	EW#14517	EW#14525	EW#14529	EW#14549	EW#14558	EW#14567	EW#14569
	EW#14575	EW#14576						
SLUDGE	(1)	EW#14222						
*SLUDGE BULKING	(1)	EW#14567						
*SLUDGE COMBUSTION	(1)	EW#14412						
*SLUDGE CONDITIONING	(1)	EW#14419						
*SLUDGE DEWATERING	(1)	EW#14575						
*SLUDGE DISPOSAL	(2)	EW#14167	EW#14418					
*SLUDGE FILTERING	(1)	EW#14575						
*SLUDGE INCINERATION	(1)	EW#14418						
*SLUDGE MANAGEMENT	(1)	EW#14339						
*SLUDGE PROCESSING	(1)	EW#14571						
*SLUDGE QUALITY APPROACH	(1)	EW#14529						
*SLUDGE STABILIZATION	(1)	EW#14419						
*SLUDGE TREATMENT	(1)	EW#14396						
*SLUDGE WASTING	(2)	EW#14219	EW#14343					

*SMALL COMMUNITIES	(2)	EW014441 EW014641
SMALL COMMUNITIES	(1)	EW014439
*SMALL FLOWS	(1)	EW014395
*SODIUM CARBONATE	(1)	EW014363
*SODIUM HYDROXIDE	(1)	EW014537
*SOFTENING	(1)	EW014521
*SOIL CONSERVATION	(1)	EW014423
*SOIL EROSION	(1)	EW014423
*SOIL GAS VAPOR EXTRACTION SYSTEMS	(1)	EW014485
*SOIL PROPERTIES	(1)	EW014486
*SOILS	(7)	EW014485 EW014423 EW014469 EW014481 EW014486 EW014496 EW014579
*SOLID WASTES	(3)	EW014360 EW014452 EW014600
SOLID WASTES	(3)	EW014345 EW014450 EW014461
*SOUTHWEST (U.S.)	(1)	EW014465
*SPILLS	(3)	EW014344 EW014491 EW014537
*STABILIZATION	(1)	EW014521
*STAFF DEVELOPMENT	(6)	EW014334 EW014335 EW014487 EW014494 EW014534 EW014535
*STANDARDS	(3)	EW014409 EW014411 EW014519
*STATE POLICIES	(1)	EW014639
*STATE PROGRAMS	(3)	EW014414 EW014415 EW014636
*STATE REGULATIONS	(1)	EW014638
*STATE ROLE	(5)	EW014366 EW014375 EW014414 EW014426 EW014610
STATE ROLE	(2)	EW014480 EW014500
*STATE TRENDS	(1)	EW014462
*STATISTICAL ANALYSIS	(1)	EW014559
*STATISTICS	(1)	EW014356
*STATUS REPORTS	(1)	EW014462
*STORAGE	(2)	EW014537 EW014585
*STORAGE TANKS	(3)	EW014168 EW014355 EW014402
*STORM WATER	(1)	EW014641
*STORMWATER	(1)	EW014171
*SUBMERSIBLE PUMPS	(2)	EW014458 EW014572

*SUPERFUND	(1)	EW014346						
*SUPERFUND REAUTHORIZATION	(1)	EW014346						
*SUPERVISORS	(1)	EW014221						
*SURFACE MINING	(1)	EW014437						
*SURFACE RUNOFF	(2)	EW014171	EW014469					
*SURVEYS	(8)	EW014359	EW014360	EW014375	EW014462	EW014479	EW014512	EW014513
	EW014514							
*TANKS	(1)	EW014168						
*TASTE	(1)	EW014329						
*TASTES	(1)	EW014521						
*TECHNOLOGY	(25)	EW014324	EW014325	EW014327	EW014358	EW014369	EW014401	EW014405
	EW014412	EW014447	EW014452	EW014455	EW014456	EW014470	EW014473	EW014499
	EW014500	EW014533	EW014549	EW014551	EW014567	EW014568	EW014573	EW014593
	EW014620	EW014630						
TECHNOLOGY	(1)	EW014222						
*TEMPERATURE	(1)	EW014339						
*TEMPERATURE EFFECTS	(1)	EW014170						
*TERTIARY TREATMENT	(1)	EW014427						
*TESTING	(2)	EW014578	EW014579					
*TESTING LABORATORIES	(1)	EW014489						
*TEXAS	(2)	EW014326	EW014514					
*THERMAL CONDITIONING	(1)	EW014571						
*THERMAL METHODS	(1)	EW014604						
*THM	(1)	EW014330						
*TOTAL ORGANICS	(1)	EW014409						
*TOXICITY	(2)	EW014587	EW014588					
*TOXICOLOGY	(5)	EW014444	EW014459	EW014601	EW014602	EW014603		
*TOXIC SUBSTANCES	(20)	EW014336	EW014346	EW014361	EW014366	EW014404	EW014410	EW014454
	EW014464	EW014481	EW014533	EW014570	EW014579	EW014583	EW014585	EW014586
	EW014587	EW014588	EW014590	EW014601	EW014608			
TOXIC SUBSTANCES	(2)	EW014345	EW014347					
*TOXIC WASTES	(2)	EW014410	EW014590					
*TRAINING	(17)	EW014220	EW014221	EW014333	EW014335	EW014352	EW014450	EW014473
	EW014516	EW014528	EW014534	EW014543	EW014545	EW014546	EW014547	EW014552
	EW014563	EW014636						
TRAINING	(1)	EW014611						

*TRAINING MANUALS	(2)	EW014437 EW014546
*TRAINING NEEDS	(1)	EW014612
*TRAINING PROCEDURES	(1)	EW014220
*TRANSPORTATION	(4)	EW014473 EW014500 EW014585 EW014638
*TREATMENT	(1)	EW014605
*TRENDS	(6)	EW014359 EW014360 EW014434 EW014462 EW014626 EW014627
TRENDS	(1)	EW014355
*TRICKLE IRRIGATION	(1)	EW014584
*TRIHALOMETHANE	(1)	EW014331
*TRIHALOMETHANES	(1)	EW014330
*TROUBLESHOOTING	(1)	EW014342
*TURBIDITY	(2)	EW014226 EW014515
*ULTRAVIOLET	(1)	EW014227
*ULTRAVIOLET LIGHT	(1)	EW014533
*ULTRAVIOLET RADIATION	(1)	EW014337
*UNDERGROUND STORAGE	(1)	EW014168
*UNDERGROUND STORAGE TANKS	(2)	EW014355 EW014402
*UNITED KINGDOM	(1)	EW014427
*UNIT PROCESSES	(1)	EW014441
*URANIUM	(2)	EW014368 EW014554
*URBAN AREAS	(1)	EW014171
*URBAN DEVELOPMENT	(1)	EW014469
*U.S DEPARTMENT OF TRANSPORTATION	(1)	EW014635
*USEPA	(6)	EW014336 EW014346 EW014409 EW014411 EW014424 EW014635
USEPA	(2)	EW014426 EW014434
*USER MANUALS	(1)	EW014619
USGAO	(1)	EW014434
*UTILITIES	(2)	EW014449 EW014451
*VACUUM ASSISTED SLUDGE DEWATERING	(1)	EW014569
*VACUUM TECHNOLOGY	(1)	EW014405
*VADOSE ZONE	(2)	EW014460 EW014591
*VENDORS	(1)	EW014630

*VENTILATION	(1)	EW0014527						
*VIDEOCASSETTES	(1)	EW0014482						
*VIDEOTAPES	(2)	EW0014552	EW0014553					
VIDEOTAPES	(1)	EW0014461						
VINYL CHLORIDE	(1)	EW0014581						
*VIRGINIA	(1)	EW0014570						
*VOLATILE ORGANIC CHEMICALS	(1)	EW0014456						
*VOLATILE ORGANIC COMPOUNDS	(1)	EW0014405						
*WASTE COLLECTION PROGRAMS	(1)	EW0014557						
*WASTE DISPOSAL	(26)	EW0014167	EW0014338	EW0014360	EW0014401	EW0014412	EW0014427	EW0014452
	EW0014455	EW0014461	EW0014473	EW0014479	EW0014482	EW0014499	EW0014524	EW0014525
	EW0014532	EW0014549	EW0014557	EW0014558	EW0014571	EW0014573	EW0014574	EW0014594
	EW0014595	EW0014600	EW0014604					
WASTE DISPOSAL	(3)	EW0014222	EW0014347	EW0014457				
*WASTE MANAGEMENT	(2)	EW0014455	EW0014630					
*WASTE REDUCTION	(5)	EW0014347	EW0014360	EW0014461	EW0014499	EW0014589		
*WASTES	(3)	EW0014167	EW0014589	EW0014594				
*WASTE STORAGE	(3)	EW0014473	EW0014574	EW0014594				
*WASTE TRANSPORTATION	(1)	EW0014594						
*WASTE TREATMENT	(8)	EW0014401	EW0014455	EW0014473	EW0014498	EW0014499	EW0014531	EW0014573
	EW0014595							
*WASTEWATER	(5)	EW0014222	EW0014450	EW0014580	EW0014610	EW0014641		
WASTEWATER	(1)	EW0014579						
*WASTEWATER COLLECTION	(7)	EW0014171	EW0014323	EW0014358	EW0014449	EW0014551	EW0014570	EW0014598
*WASTEWATER TREATMENT	(86)	EW0014167	EW0014169	EW0014170	EW0014172	EW0014217	EW0014218	EW0014219
	EW0014222	EW0014224	EW0014226	EW0014226	EW0014227	EW0014228	EW0014229	EW0014230
	EW0014324	EW0014325	EW0014326	EW0014327	EW0014336	EW0014337	EW0014338	EW0014339
	EW0014340	EW0014341	EW0014342	EW0014343	EW0014344	EW0014349	EW0014350	EW0014351
	EW0014352	EW0014358	EW0014359	EW0014369	EW0014375	EW0014393	EW0014394	EW0014395
	EW0014396	EW0014397	EW0014398	EW0014399	EW0014400	EW0014409	EW0014410	EW0014411
	EW0014412	EW0014414	EW0014417	EW0014418	EW0014419	EW0014427	EW0014434	EW0014439
	EW0014447	EW0014451	EW0014470	EW0014471	EW0014493	EW0014494	EW0014617	EW0014622
	EW0014523	EW0014526	EW0014528	EW0014529	EW0014531	EW0014533	EW0014549	EW0014551
	EW0014552	EW0014553	EW0014559	EW0014560	EW0014567	EW0014568	EW0014569	EW0014571
	EW0014572	EW0014575	EW0014576	EW0014580	EW0014597	EW0014600	EW0014620	
WASTEWATER TREATMENT	(2)	EW0014345	EW0014461					
*WASTEWATER TREATMENT RATES	(1)	EW0014359						
*WASTEWATER UTILITIES	(1)	EW0014520						
*WATER	(1)	EW0014450						

WATER	(1)	EW0014222
*WATERBORNE DISEASES	(1)	EW0014582
*WATER COMPANIES	(1)	EW0014640
*WATER CONSERVATION	(5)	EW0014512 EW0014513 EW0014514 EW0014584 EW0014606
*WATER DISTRIBUTION	(3)	EW0014363 EW0014449 EW0014472
*WATER EXPOSURE	(1)	EW0014632
*WATER PIPES	(2)	EW0014363 EW0014364
*WATER POLLUTION	(6)	EW0014423 EW0014481 EW0014580 EW0014592 EW0014605 EW0014609
WATER POLLUTION	(1)	EW0014222
*WATER POLLUTION CONTROL	(21)	EW0014168 EW0014336 EW0014403 EW0014410 EW0014415 EW0014423 EW0014426 EW0014427 EW0014434 EW0014437 EW0014442 EW0014460 EW0014481 EW0014592 EW0014593 EW0014595 EW0014608 EW0014610 EW0014612 EW0014613 EW0014615
WATER POLLUTION CONTROL	(2)	EW0014402 EW0014586
*WATER QUALITY	(34)	EW0014168 EW0014222 EW0014329 EW0014330 EW0014356 EW0014363 EW0014364 EW0014367 EW0014375 EW0014402 EW0014423 EW0014426 EW0014427 EW0014434 EW0014437 EW0014440 EW0014442 EW0014460 EW0014469 EW0014471 EW0014472 EW0014481 EW0014495 EW0014515 EW0014554 EW0014557 EW0014592 EW0014608 EW0014609 EW0014610 EW0014613 EW0014615 EW0014626 EW0014631
WATER QUALITY	(3)	EW0014355 EW0014425 EW0014466
*WATER RATES	(2)	EW0014511 EW0014640
*WATER RESOURCES	(16)	EW0014222 EW0014367 EW0014415 EW0014440 EW0014462 EW0014466 EW0014471 EW0014495 EW0014610 EW0014614 EW0014619 EW0014621 EW0014623 EW0014626 EW0014627 EW0014641
WATER RESOURCES	(3)	EW0014512 EW0014513 EW0014514
*WATER REUSE	(2)	EW0014403 EW0014471
*WATER RIGHTS	(2)	EW0014621 EW0014623
*WATER SUPPLIERS	(3)	EW0014639 EW0014640 EW0014641
*WATER SUPPLY	(14)	EW0014363 EW0014449 EW0014462 EW0014465 EW0014466 EW0014472 EW0014495 EW0014511 EW0014582 EW0014614 EW0014619 EW0014626 EW0014627 EW0014639
WATER SUPPLY	(5)	EW0014512 EW0014513 EW0014514 EW0014515 EW0014606
*WATER TREATMENT	(33)	EW0014161 EW0014162 EW0014163 EW0014169 EW0014222 EW0014329 EW0014330 EW0014331 EW0014362 EW0014363 EW0014364 EW0014368 EW0014403 EW0014439 EW0014441 EW0014451 EW0014456 EW0014471 EW0014494 EW0014515 EW0014518 EW0014519 EW0014521 EW0014554 EW0014555 EW0014556 EW0014557 EW0014582 EW0014592 EW0014593 EW0014597 EW0014609 EW0014639
*WATER USE	(5)	EW0014462 EW0014584 EW0014606 EW0014627 EW0014641
*WATER UTILITIES	(1)	EW0014520
*WELL DRILLING	(1)	EW0014354
*WESTERN UNITED STATES	(2)	EW0014621 EW0014623

*WET AIR OXIDATION	(1)	EW@14339	
*WETLANDS	(2)	EW@14425	EW@14448
*WHITING	(1)	EW@14515	
*WISCONSIN	(1)	EW@14349	
*WORKSHOPS	(2)	EW@14220	EW@14545
*WORLD PROBLEMS	(1)	EW@14627	
*WPCF	(1)	EW@14225	
*WRITING	(1)	EW@14546	